

**Appendix E**

**Year One Annual Report Materials**  
**City of Marina**

When the Phase 2 storm water regulations were promulgated by the SWRCB and the RWQCB, the City of Marina initially believed its storm drainage system required permit coverage, principally because it was a listed entity in Attachment 1 to the General Permit. Consequently, the City of Marina joined with many of the neighboring entities in applying for permit coverage under the General Permit, and committed to fulfill the commitments contained in the MRSWMP. However, now that the city has gained a more thorough understanding of the applicability of these regulations and the permit coverage requirements set forth in the General Permit, the city now believes that its storm drain system is not subject to these regulations or requirements. Consequently, the City of Marina submitted the following attached letter to the RWQCB dated August 8, 2007 requesting to terminate permit coverage the SWRCB's General Permit.

At the time of preparation of this Year 1 Annual Report, no decision on the request for termination had been received by the City from the RWQCB.

# City of Marina

AT MONTEREY BAY

August 8, 2007

Mr. Ryan Lodge  
Central Coast Regional Water Quality Control Board  
895 Aerovista Place, Suite 101  
San Luis Obispo, CA 93401

**Subject: City of Marina; Request to Terminate Permit Coverage**

Dear Mr. Lodge:

The City of Marina submits this request to terminate permit coverage under the State Water Resources Control Board's (SWRCB) Water Quality Order No. 2003 – 0005 – DWQ, NPDES General Permit No. CAS000004, Waste Discharge Requirements for Storm Water Discharges from Small Municipal Separate Storm Sewer Systems (General Permit). Coverage for the City of Marina under the SWRCB's General Permit began when the Regional Water Quality Control Board (RWQCB) adopted Resolution No. R3-2006-0076 on September 7, 2006, approving the Monterey Regional Storm Water Management Program (MRSWMP).

This request is submitted under the provisions of Section D.5 "Termination of Coverage" of the General Permit. This Section states that:

"A Permittee may terminate coverage if a new operator has assumed responsibility for the MS4, the Permittee has ceased operation of the MS4, or the Permittee has eliminated discharges from the MS4. To terminate coverage, the Permittee must submit a written request to the RWQCB."

This request to terminate coverage is based on the fact that the City of Marina has eliminated discharges from its MS4. The information provided below supports and justifies this request.

**Background**

When the Phase 2 storm water regulations were promulgated by the SWRCB and the RWQCB, the City of Marina initially believed its storm drainage system required permit coverage, principally because it was a listed entity in Attachment I to the General Permit. Consequently, the City of Marina joined with many of the neighboring entities in applying for permit coverage under the General Permit, and committed to fulfill the commitments contained in the MRSWMP. However, now that the city has gained a more thorough understanding of the applicability of these regulations and the permit coverage requirements set forth in the General Permit, the city now believes that its storm drain system is not subject to these regulations or requirements.

Mr. Ryan Lodge  
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### **The City of Marina's Storm Drainage System**

Since its inception the City of Marina's storm drainage system has consisted of a series of percolation ponds located throughout the city, with flows from local drainage areas routed to these ponds through relatively short lengths of storm drainage piping. The locations of the ponds, designated as "Percolation Lots," are shown in the map titled "City of Marina Percolation Lots, Revised April 24<sup>th</sup>, 2006," enclosed with this letter. Each residential and business area is within close proximity to one of these ponds, and no storm water runoff from the city leaves the city as a discharge to waters of the United States.

Many of the ponds have surplus percolation capacity above that required by the design criteria established by the city for the design of these ponds. These design criteria are summarized below in Table 1, and are presented in detail in Appendix A to this letter.

The City of Marina has acquired, or in the future will acquire, property located on the former Fort Ord. The storm drainage facilities within this property are described in the narrative and figures contained in Appendix B to this letter, which contains excerpts from the Fort Ord Reuse Authority's (FORA) Storm Drain Outfall Removal Project documents. The city's property is contained within the areas designated as C1, C2, C3, DA/B1, DA/B2, DA3, DA 4, DA5, DC1, DC2, , DD1, DD2, and EC/D/E on Figure 10 in Appendix B. All storm water runoff from these areas is conveyed to percolation ponds, with no storm water discharge to Monterey Bay or any other water of the United States. The three outfalls which in the past have discharged storm water runoff from these areas (shown as the 54", North 48", and South 48" outfalls in Figure 10 of Appendix B) have since been removed through FORA's Storm Drain Outfall Removal Project, which was completed several years ago.

### **Basis and Justification for Termination of Permit Coverage**

The City of Marina has no outfalls to any river or to Monterey Bay, and thus has no storm water discharges to waters of the United States. In accordance with Finding No. 7 of the General Permit, which references the U.S. Environmental Protection Agency's authority under Section 402(p)(6) of the Clean Water Act, the city is therefore not required to have NPDES permit coverage for its storm drainage system. Consequently, the city hereby requests termination of coverage under the SWRCB's General Permit, and from compliance with the requirements and commitments contained in the Monterey Regional Storm Water Management Program.



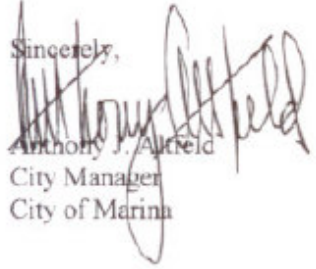
Mr. Ryan Lodge

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If you require any additional information to complete your review, and presumably favorable consideration of this Request, please contact the Mr. Maziar Bozorginia, Assistant Engineer, at (831) 884-1205 or by email at [mbozorginia@ci.marina.ca.us](mailto:mbozorginia@ci.marina.ca.us)

Sincerely,



Anthony J. Aufield

City Manager

City of Marina

**Table 1**  
**Storm Drain Design Criteria**

<b>Design Parameter</b>	<b>Criteria</b>
Design storm	<ul style="list-style-type: none"> <li>• 10 year storm for design of conduits and inlets</li> <li>• 100 year storm for design of channels, retention facilities, surface structures and underground structures</li> </ul>
Peak runoff determination	<ul style="list-style-type: none"> <li>• Based on Rational Method for runoff areas less than 320 acres in size, OR</li> <li>• Based on computer simulations for runoff areas of any size, and generally required for developments greater than 320 acres in size</li> </ul>
Rainfall intensity	Based on Monterey County Standard Details "Rainfall Intensities" for the City of Marina
Runoff coefficients	Specified for each type of land use or impervious/partially impervious surface, ranging from C=0.10 for parks to C=0.95 for streets and roofs
Allowable percolation rate for ponds	12 inches per hour
Pond design	<ul style="list-style-type: none"> <li>• Excavated below natural ground with no levees</li> <li>• Side slopes of 3:1 or flatter</li> <li>• Enclosed by a 6 foot high chain link fence</li> <li>• 6 foot wide access path, for maintenance, provided around the pond perimeter within the chain link fencing</li> <li>• 16 foot wide access gate and paved access driveway</li> <li>• Equipment access ramp extending to the pond bottom (for maintenance) 8 feet wide and not steeper than 5:1 slope</li> <li>• Erosion control measures required</li> </ul>
Minimum pipe size	<ul style="list-style-type: none"> <li>• 15 inches minimum diameter for storm drain pipes</li> <li>• 12 inches minimum diameter for catch basin laterals, if this provides sufficient capacity</li> </ul>
Velocities	Minimum velocity of 2 feet per second Maximum velocity of 8 feet per second

**Table 1 (Continued)**  
**Storm Drain Design Criteria**

<b>Design Parameter</b>	<b>Criteria</b>
Siphons	Not allowed
Flood prone areas	Special consideration to be given in the design of storm drainage facilities in areas historically subject to flooding
Runoff from new developments	New developments are to design their storm drainage systems such that no runoff leaves the development site, i.e. all runoff contained and percolated on site
Storm water quality	Storm drainage systems are to be designed in accordance with the most current version of “California Stormwater Best Management Practice Handbook for New Development and Redevelopment,” including the source control BMPs contained in this handbook

**APPENDIX A**  
**(To Termination Request Letter)**

**City of Marina's Storm Drain System Design Criteria**

## **II. STORM DRAIN DESIGN**

### **A. GENERAL**

Storm drainage facilities shall be designed to retain runoff water within the boundaries of the project and shall conform to the City's Standard Specifications. The determination of storm runoff and required facilities shall be as outlined herein. The storm drainage system shall follow natural drainage patterns as much as possible, within the constraints of the development needs and City requirements. All channels shall be maintained in their natural state to the maximum extent practical.

Storm drainage facilities for new development retention areas shall typically be reinforced concrete with pipe strength of Class III RCP or high density polyethylene pipe HDPE-DR25. Drainage ditches or open channel conveyance shall only be used if approved by the City Engineer.

Retention of storm water runoff from new development or redevelopment shall be implemented as specified herein.

The design of storm drainage facilities is subject to final determination and approval of the City Engineer.

### **B. STORM DESIGN CRITERIA**

A ten (10) year design storm shall be used for design of conduits and inlets. A hundred (100) year storm design shall be used for all channels, retention facilities, surface structures and underground structures. Rainfall intensities shall be based on the Monterey County Standard Details "Rainfall Intensities." Storm Calculations used to design storm facilities shall be submitted with improvement plans. Calculations shall include HGL and EGL elevations.

### **C. HYDROLOGY-SURFACE RUNOFF**

Two methods are described in this section to estimate peak runoff for storm drainage facility sizing:

- C.1 Rational Method for drainage areas of three hundred twenty (320) acres or less. At the option of the City Engineer, the Rational Method may be used for larger areas.
- C.2 Computer simulation method for drainage areas of any size, but generally required for developments larger than three hundred twenty (320) acres.

#### *C.1 Rational Method:*

The "Rational Method" can be used to determine peak discharges for drainage areas up to three hundred twenty (320) acres in size. At the option of the City Engineer, use of the Rational Method may be approved for larger drainage areas.

The Rational Method approach is represented by the formula:

$$Q=CiA$$

Where:

Q: Design peak runoff/discharge I cubic feet per second (cfs)

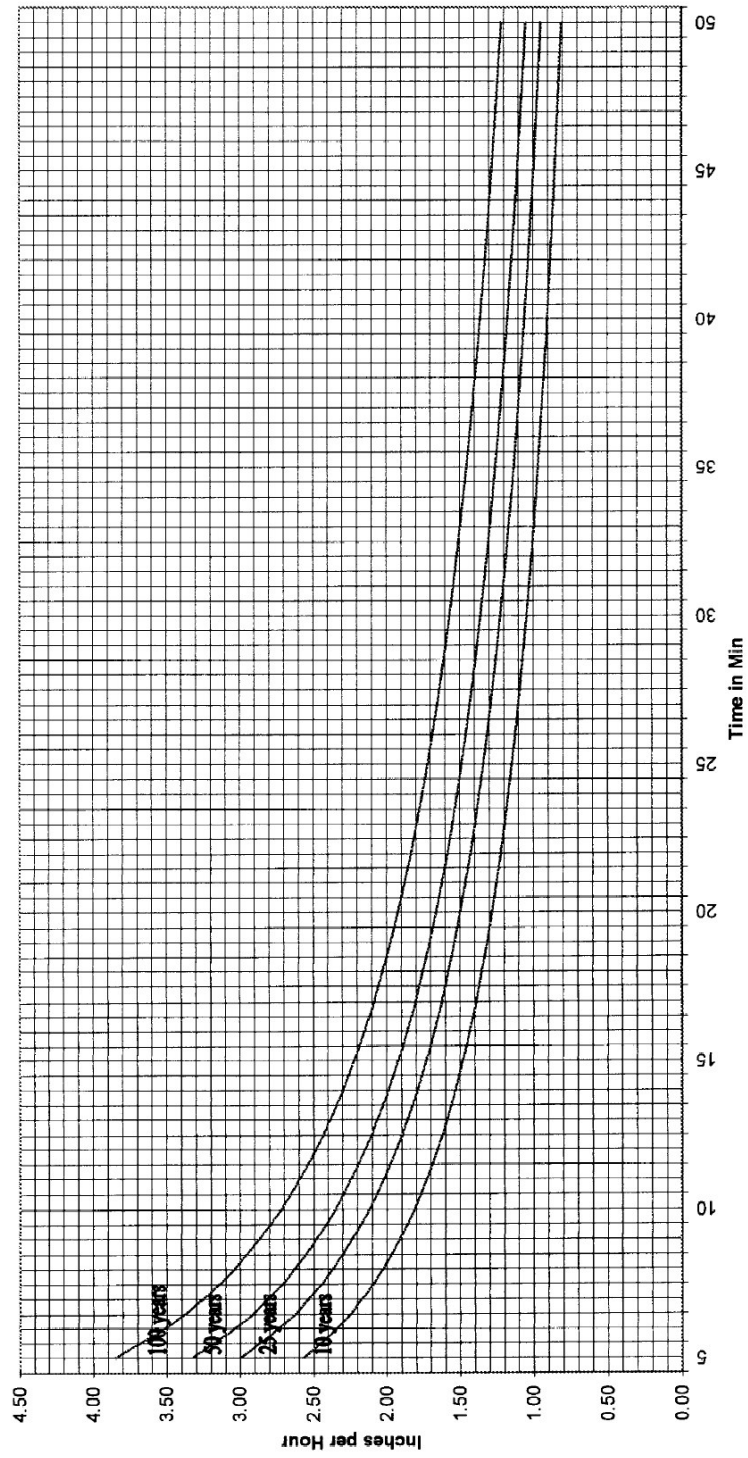
C: Coefficient of runoff, representing the ratio of runoff to rainfall



- i: Average rainfall intensity expressed in inches per hour for a duration equal to the time of concentration\*
- A: Size of the tributary drainage area in acres

\*The time of concentration is considered as the time required for water to flow overland to reach established surface drainage channels such as street gutters, and channel flow time required for water to flow through established drainage channels to the point of inlet of the City's storm drain system. A minimum inlet time of fifteen (15) minutes is used. Subsequent time of concentration in the drainage system shall be determined by the time of flow in the conduit.

**Rain Fall Intensities For Marina**



Intensities (inches per hour)				
Min	10 yr	25 yr	50 yr	100 yr
5	2.56	3.00	3.33	3.85
6	2.34	2.74	3.04	3.51
7	2.17	2.53	2.81	3.25
8	2.03	2.37	2.63	3.04
9	1.91	2.23	2.48	2.87
10	1.81	2.12	2.35	2.72
11	1.73	2.02	2.24	2.59
12	1.66	1.94	2.15	2.48
13	1.59	1.86	2.06	2.39
14	1.53	1.79	1.99	2.30
15	1.48	1.73	1.92	2.22
16	1.43	1.68	1.86	2.15
17	1.39	1.63	1.80	2.09
18	1.35	1.58	1.75	2.03
19	1.32	1.54	1.71	1.97
20	1.28	1.50	1.66	1.92
21	1.25	1.46	1.62	1.88
22	1.22	1.43	1.59	1.83
23	1.20	1.40	1.55	1.79
24	1.17	1.37	1.52	1.76
25	1.15	1.34	1.49	1.72
26	1.12	1.31	1.46	1.69
27	1.10	1.29	1.43	1.66
28	1.08	1.27	1.41	1.63
29	1.06	1.24	1.38	1.60
30	1.05	1.22	1.36	1.57
31	1.03	1.20	1.34	1.55
32	1.01	1.19	1.32	1.52
33	1.00	1.17	1.30	1.50
34	0.98	1.15	1.28	1.48
35	0.97	1.13	1.26	1.45
36	0.96	1.12	1.24	1.43
37	0.94	1.10	1.22	1.41
38	0.93	1.09	1.21	1.40
39	0.92	1.07	1.19	1.38
40	0.91	1.06	1.18	1.36
41	0.90	1.05	1.16	1.34
42	0.88	1.03	1.15	1.33
43	0.87	1.02	1.13	1.31
44	0.86	1.01	1.12	1.30
45	0.85	1.00	1.11	1.28
46	0.85	0.99	1.10	1.27
47	0.84	0.98	1.09	1.25
48	0.83	0.97	1.07	1.24
49	0.82	0.96	1.06	1.23
50	0.81	0.95	1.05	1.22
51	0.80	0.94	1.04	1.20
52	0.80	0.93	1.03	1.19
53	0.79	0.92	1.02	1.18
54	0.78	0.91	1.01	1.17
55	0.77	0.90	1.00	1.16
56	0.77	0.90	0.99	1.15
57	0.76	0.89	0.99	1.14
58	0.75	0.88	0.98	1.13
59	0.75	0.87	0.97	1.12
60	0.74	0.87	0.96	1.11

Intensities (inches per hour)				
Min	10 yr	25 yr	50 yr	100 yr
61	0.73	0.86	0.95	1.10
62	0.73	0.85	0.94	1.09
63	0.72	0.84	0.94	1.08
64	0.72	0.84	0.93	1.08
65	0.71	0.83	0.92	1.07
66	0.71	0.83	0.92	1.06
67	0.70	0.82	0.91	1.05
68	0.70	0.81	0.90	1.04
69	0.69	0.81	0.90	1.04
70	0.69	0.80	0.89	1.03
71	0.68	0.80	0.88	1.02
72	0.68	0.79	0.88	1.01
73	0.67	0.78	0.87	1.01
74	0.67	0.78	0.86	1.00
75	0.66	0.77	0.86	0.99
76	0.66	0.77	0.85	0.99
77	0.65	0.76	0.85	0.98
78	0.65	0.76	0.84	0.97
79	0.65	0.75	0.84	0.97
80	0.64	0.75	0.83	0.96
81	0.64	0.74	0.83	0.96
82	0.63	0.74	0.82	0.95
83	0.63	0.74	0.82	0.94
84	0.63	0.73	0.81	0.94
85	0.62	0.73	0.81	0.93
86	0.62	0.72	0.80	0.93
87	0.61	0.72	0.80	0.92
88	0.61	0.71	0.79	0.92
89	0.61	0.71	0.79	0.91
90	0.60	0.71	0.78	0.91
91	0.60	0.70	0.78	0.90
92	0.60	0.70	0.78	0.90
93	0.59	0.70	0.77	0.89
94	0.59	0.69	0.77	0.89
95	0.59	0.69	0.76	0.88
96	0.59	0.68	0.76	0.88
97	0.58	0.68	0.76	0.87
98	0.58	0.68	0.75	0.87
99	0.58	0.67	0.75	0.86
100	0.57	0.67	0.74	0.86
105	0.56	0.65	0.73	0.84
110	0.55	0.64	0.71	0.82
115	0.53	0.63	0.69	0.80
120	0.52	0.61	0.68	0.79
125	0.51	0.60	0.67	0.77
130	0.50	0.59	0.65	0.75
135	0.49	0.58	0.64	0.74
140	0.48	0.57	0.63	0.73
145	0.48	0.56	0.62	0.71
150	0.47	0.55	0.61	0.70
155	0.46	0.54	0.60	0.69
160	0.45	0.53	0.59	0.68
165	0.45	0.52	0.58	0.67
170	0.44	0.51	0.57	0.66
175	0.43	0.51	0.56	0.65
180	0.43	0.50	0.55	0.64

**DESIGN OF STORM WATER DRAINAGE FACILITIES**  
**IN MARINA, CALIFORNIA**

**Hydraulic Design Factors:**

- A. The 10-year design storm shall be a rainfall expressed by the following formula:

$$i = 5.68 / \sqrt{t}$$

Where:  $i$  = intensity of rainfall in inches per hour  
 $t$  = duration of storm in minutes

- B. Runoff Coefficients (for estimation purposes only):

Residential:

Single Family Areas	0.30-0.60
Multi Family/Apt. Areas	0.50-0.80

Industrial:

Light	0.50-0.80
Heavy	0.60-0.90

Parks: 0.10-0.25

Playgrounds: 0.20-0.35

Streets: 0.70-0.95

Roofs: 0.75-0.95

Landscaped Areas: 0.05-0.10

Undeveloped Areas: 0.05-0.30

Notes:

1. The area to be used in runoff calculation shall include the proposed development and all developed and undeveloped areas draining into the proposed development.
2. Runoff coefficients shall be calculated based on actual pervious and impervious areas.

- C. Infiltration rate for percolation pond is 12 inches per hour.

**STANDARDS**

**OPEN PONDS:**

- Pond shall be excavated below natural ground with no levees.
- Excavation slopes shall be 3:1 or flatter. If retaining walls are proposed, the design shall be approved by the City Engineer.
- Ponds maintained by the City shall be enclosed with a six (6) foot high chain link fence. The fence shall be located in conformance with subdivision setback lines.



- A six (6) foot wide access path shall be provided around the pond perimeter within the fenced area.
- A sixteen (16) foot wide access gate and paved driveway shall be provided.
- An equipment access ramp eight (8) feet wide and not steeper than 5:1 shall be provided for access to bottom of pond.
- Pond design shall incorporate erosion control measures.

#### **D. HYRAULIC CONSIDERATIONS**

A minimum pipe size of fifteen (15) inch diameter is required for all storm drains. A twelve (12) inch diameter may be used for catch basin laterals, provided it has adequate capacity and will have a one (1) percent minimum slope.

Gradients of pipes shall be sufficient to provide a velocity no less than two (2) feet per second or more than eight (8) feet per second when flowing full. End lines serving a single inlet shall have a one (1) percent minimum slope, although slope should be maximized to minimize maintenance efforts.

Drainage inlet type and spacing shall be governed by the capacity of the drainage channel/gutter as well as the capacity of the inlet itself. Generally, channel flow lengths between inlets should be less than one thousand (1,000) feet, with a flowline grade of not less than .0050 of a percent. In designing a structure, the inlet capacity of the pipe draining the inlet structure shall be considered with a minimum of 0.2 of a foot fall around returns.

Manholes or structures providing access to the pipe should be constructed at all changes in pipe size and angle points. Manhole spacings should not exceed six hundred (600) feet. Manholes are required at all lateral pipe junctions with new and existing mains, unless the main pipeline is three times or greater in diameter than the joining pipe. Where grades permit, one-tenth (0.1) of a foot drop in manholes should be included where there is no appreciable change in direction, and two-tenth (0.2) foot drop where turns occur.

Pipelines may be laid on curves by using beveled pipe sections and/or by deflections of straight pipe in accordance with pipe manufacturers recommendations.

Siphons shall not be used at any location within the storm drainage system.

Special consideration shall be given to the design criteria for storm facilities in areas that are historically subject to flooding. Design criteria for flood prone lands shall be in accordance with these standards and specifications, and with the standards of the Monterey County Water Resources Agency. Requirements for storm water retention are discussed in Section E.

For the protection of properties under flooding conditions, flood relief structures, channels or other drainage facilities shall be constructed to accommodate floodwater depths exceeding nine (9) inches above gutter flowlines.

#### **E. RETENTION REQUIREMENTS**

New development and redevelopment shall provide storm water retention to mitigate increases in storm water discharges. The post-project runoff shall not leave the site.

#### **F. STORMWATER QUALITY CONSIDERATIONS**

Storm drainage system design shall be in compliance with the storm water quality requirements of the City's NPDES Municipal Storm Water Permit and Storm Water Management and Discharge Control Ordinance. Storm water quality best management practices (quality control measures) shall be incorporated as part of all new and redevelopment projects.

The California Stormwater Best Management Practice Handbook for New Development and Redevelopment (2003 or current version) shall be used as the bases for selection and design of best management practices for storm water quality. This handbook is accessible at [www.cabmphandbooks.com](http://www.cabmphandbooks.com).

All catch basins and inlets shall be clearly marked with the message "NO DUMPING," using City-approved methods.

Source control best management practices (BMP), as described in the California Stormwater Best Management Practice Handbook for New Development and Redevelopment and indicated below, shall be incorporated into the design as needed to control sources of potential pollutants.

#### **G. DESIGN SUBMITTAL REQUIREMENTS**

The design engineer shall submit a design report on the proposed storm drainage system improvements. This report shall include:

The hydrologic calculations, facility sizing, and hydraulic gradeline calculations for proposed facilities. Hydrologic and hydraulic calculations shall meet the requirements specified in this section. If a computer model is used, a description of the model, the hydrologic and hydraulic parameters used for the analysis findings, and printouts of the computer input and output files for the proposed improvements shall be documented and provided to the City Engineer.

Profiles of each existing and proposed storm drain shall be submitted with the calculations. The profile shall show the following information: beginning water surface elevation and location for hydraulic calculations; storm drain invert and soffit; diameter; design flow; design hydraulic gradeline; existing ground line; proposed ground line if applicable; and locations of street intersections and connections with other storm drains or channels. A plan view map shall also be provided for off-site profiles.

For retention basins, the storage volume calculations, a plan view map showing the location of the basin, a conceptual cross-section showing the depth, and a

description of the storm water quality features to be incorporated into the basin design shall be provided.

**APPENDIX B**  
**(To Termination Request Letter)**

**Excerpts from the Fort Ord Reuse Authority's Storm Drain Outfall Removal  
Project Documents**

## EXHIBIT II.A

### PART II ARCHITECTURE/ENGINEERING

Continuation of Page 11

#### **1. Project Components**

The project components consist of the following:

- Increase the capacity of existing basin F1, F3, F4, from the present 10 acre feet to 86 acre feet, to retain and percolate a 125-year storm incident. The capacity increase will be gained through deepening the existing basin and raising Monterey Road, west of and contiguous with the basin. The existing 36" outfall from the basin will be capped and abandoned in place. A smaller basin will be constructed on the westerly side of Highway 1 to receive drainage from Highway 1.
- Construct 470 linear feet of 60" pipeline to divert the 60" storm drain to convey storm flows to an existing topographic depression northerly of the existing 60" pipeline. An energy dissipater will be included in the diversion works. The existing 60" outfall structure will be demolished and removed from the beach.
- Construct a total of 790 linear feet of 48" storm drain to divert both the North and South 48" storm drains to a common percolation site in an existing topographic depression. Two energy dissipaters will be a portion of the construction. The existing outfalls will be demolished and removed from the beach.
- Construct percolation/disposal basin, of approximately 20 acres, east of Highway 1, within parcel C3 of the project map. Construct approximately 420 linear feet of 54" diversion piping to an existing topographic depression south of the existing 54" storm drain. An energy dissipater will be constructed as a portion of the diversion works.
- A master plan of percolation/disposal sites to serve public facilities will be provided to the land use jurisdictions together with design standards to guide future installation of individual percolation/disposal facilities leading to a decentralized storm water disposal program.

#### **2. Sketches and Schematics**

Refer to the attached Schaaf & Wheeler map of the hydrologic drainage areas, percolation/disposal sites and Figures 5, 6, and 7 depicting proposed improvements at percolation/disposal sites



### 3. Feasibility Analysis

The proposed project will provide infrastructure to 695 acres of land zoned Planned Development/Mixed Use and School/University and 650 acres of land zoned Visitor Serving. This acreage constitutes one-third of the redevelopment land on the former Fort Ord. The build out of the former Fort Ord is projected to create 37,500 new jobs. One-third of these new jobs, or 12,500 new jobs, will be directly supported by the proposed infrastructure project.

The existing storm drainage system on the former Fort Ord was developed through the time period of 1940 through 1965. The earliest development in the present cantonment area of the former Fort Ord took place in the westerly edge close to the ocean. The buildings were erected as temporary facilities for housing and training for World War II. Much of the infrastructure was also intended to be for temporary use.

With the passage of time and the increased uses to which the former Fort Ord was pressed, the cantonment expanded easterly. The storm drainage system was expanded, along with the development, with no concern for the capacity, condition or age of the older system to which it was connecting and discharging.

In 1963 the Army completed the installation of replacement outfall structures on the beach, draining into the Pacific Ocean. When constructed these outfalls were at the level of the sand beach. In the intervening 38 years the beach has continued the natural erosion process and today the outfall structures stand more than 20 feet above the beach elevation. The sand dune formations that stand as bluffs on the inland, easterly, side of the beach have also eroded back from the ocean to expose the juncture between the storm drain piping and the outfall structure. This vulnerable connection has failed at all four of the existing outfalls. At the North 48" outfall the failure has been most catastrophic and has lead to the erosion of a channel 300 yards long, 15 yards wide and 20 yards deep.

The storm drainage system transports the collected rainfall from, in excess of, 3000 acres of impervious surfaces of the former Fort Ord. The system makes no provision for sand or grease and oil separation and poses a considerable hazard to the Monterey Bay National Marine Sanctuary, which lies directly off shore from the former Fort Ord. This system has operated under an NPDES permit issued to the Army.

The storm drainage system, in its present condition, and as a result of the combined effects of the lack of planning, under sizing, construction materials beyond their useful lives and deferred maintenance, does not protect the developable area of the former Fort Ord from the risk of inundation.

The soil formation, on which the former Fort Ord cantonment area is sited, consists of ancient sand dunes. The soils are well-graded sands that demonstrate percolation rates of 24 inches per hour.

In its present condition the storm drainage system does not provide adequate protection, has a need for capital investment for repair and maintenance, poses a hazard to the Marine Sanctuary and beach visitors and is unneeded for water disposal.

The Fort Ord Reuse Authority (FORA), with the assistance of an EDA Technical Assistance Grant, has studied the alternative solutions leading to the termination of high-risk discharges to the Marine Sanctuary and the enhancement of ground water supplies while assuring protection from flooding and the reduction of operation and maintenance costs.

The solution developed by FORA has the goal of including localized percolation/disposal facilities at each land development on the former Fort Ord. A singular set of standards for the design and evaluation of facilities will be prepared and a master plan developed to give guidance to this goal. At the completion of build-out of the Fort Ord Reuse Plan (BRP), all storm waters will be collected and percolated east of Highway 1. Ultimately the percolation facilities will be a combination of private facilities, draining developments, and public facilities draining roads and public lands.

To receive and dispose of the storm flows that will occur in the existing storm drainage system until the build-out of the BRP, a temporary set of five (5) percolation/disposal facilities will be designed and three (3) will be constructed as the proposed project. Also incorporated in the proposed project is the construction of required piping to divert existing storm drains to the temporary percolation/disposal sites and the removal of the existing outfall structures. The attached maps illustrate the proposed project.

The only impediments that may affect the progress of construction would be the environmental assessment/initial study process and the permit issuance processes. The proposed project is a popular one in the region and no difficulties are anticipated, however; the permitting process is lengthy one.

#### **4. Percentage of Capacity by Beneficiary**

The design and construction of the percolation/disposal sites will provide disposal for 100-year, or greater, return frequency storm. The proposed construction will accommodate the storm waters from those lands due to be transferred to the City of Seaside, the City of Marina, the County of Monterey and California State University, Monterey Bay.

The proposed project does not add capacity to the storm drainage system. No additional capacity will be required under the Fort Ord Base Reuse Plan, which calls for no net increase in impermeable area through redevelopment. Based on estimated construction costs the percent of benefit of the proposed project to

each beneficiary is: City of Seaside 63%, City of Marina 17% and CSUMB/Monterey County combined 20%.

#### **5. Method of Construction**

FORA will provide project management, construction management and construction observation using its own forces. The construction will be performed under a single contract awarded through a competitive bidding process.

#### **6. Useful Life of Project**

The useful life of the project is the same as the time period estimated for the build out of the BRP, and is estimated at fifteen (15) years. At the point of build out of the BRP the FORA plan for storm water percolation/disposal east of Highway 1 will have been accomplished through land development projects.

#### **7. Cost Estimate**

The estimated cost of construction is as follows:

<u>Project Element</u>	<u>Element Cost</u>	<u>Cum. Total</u>
Basin F1/F3/F4	\$1,236,000	
60" Outfall Diversion and Demo.	\$550,654	\$1,236,000
South 48" Diversion and Demo.	\$452,654	\$1,788,654
North 48" Diversion and Demo.	\$429,653	\$2,239,308
Diversion @ C3	\$500,000	\$2,668,961
54" Outfall Diversion and Demo.	\$613,890	\$3,168,961
		\$3,782,851

#### **8. Permits**

Construction of the project is anticipated to require permits from the California Coastal Commission, consultation with the U.S. Fish and Wildlife Service and possibly other agencies. The possible permit requirements were discussed at length in the project Preliminary Design Report; a copy of the permits excerpt is attached. These permits and consultations cannot be sought until the FORA Board has adopted the environmental documents for the construction.

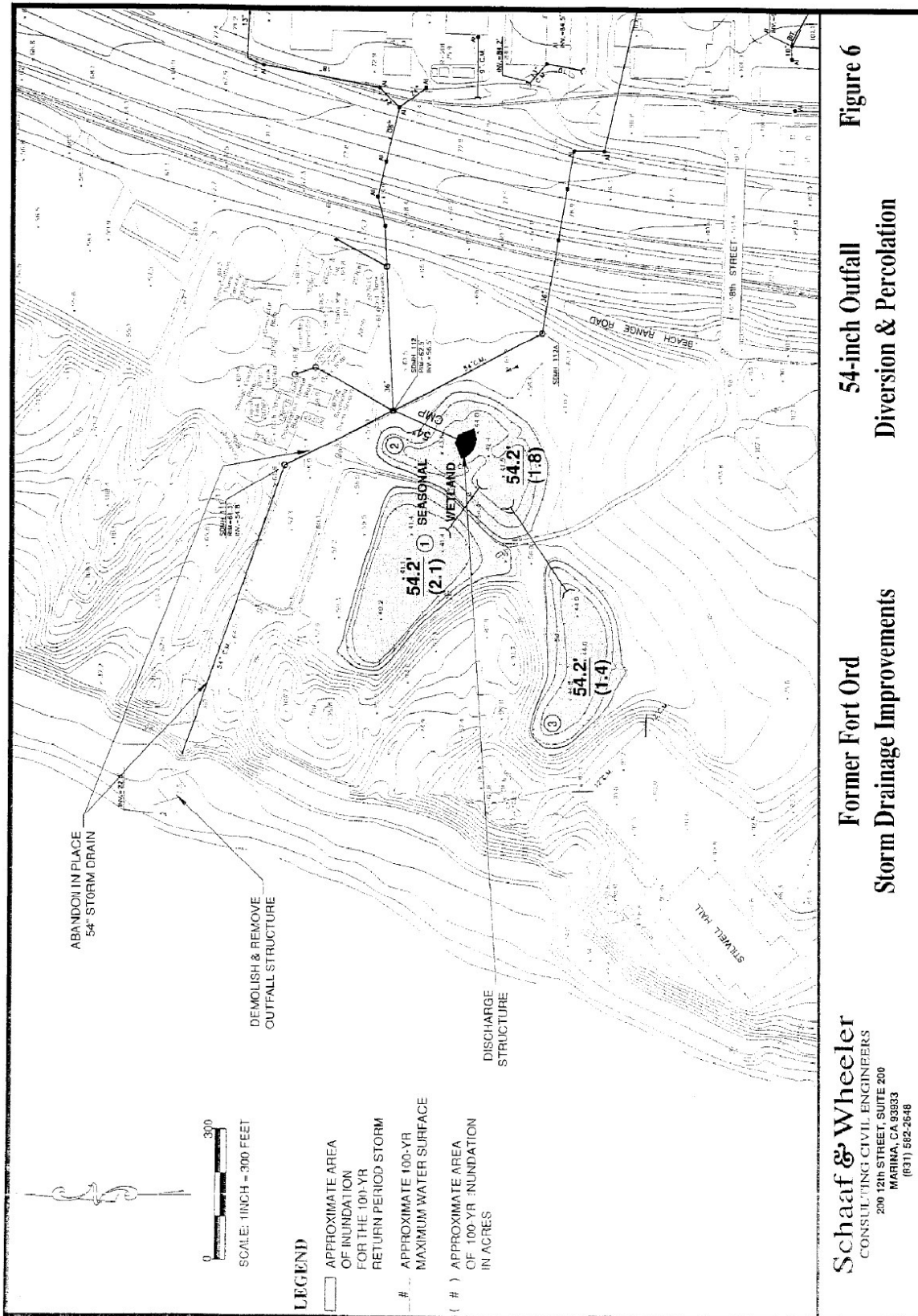
## **9. Design Period**

It is estimated that the design and permit period will extend 12 months from the date of grant award. Construction and removal of the outfall structures will require 6 months following the design and permit period. The project should be completed in 18 months following grant award.

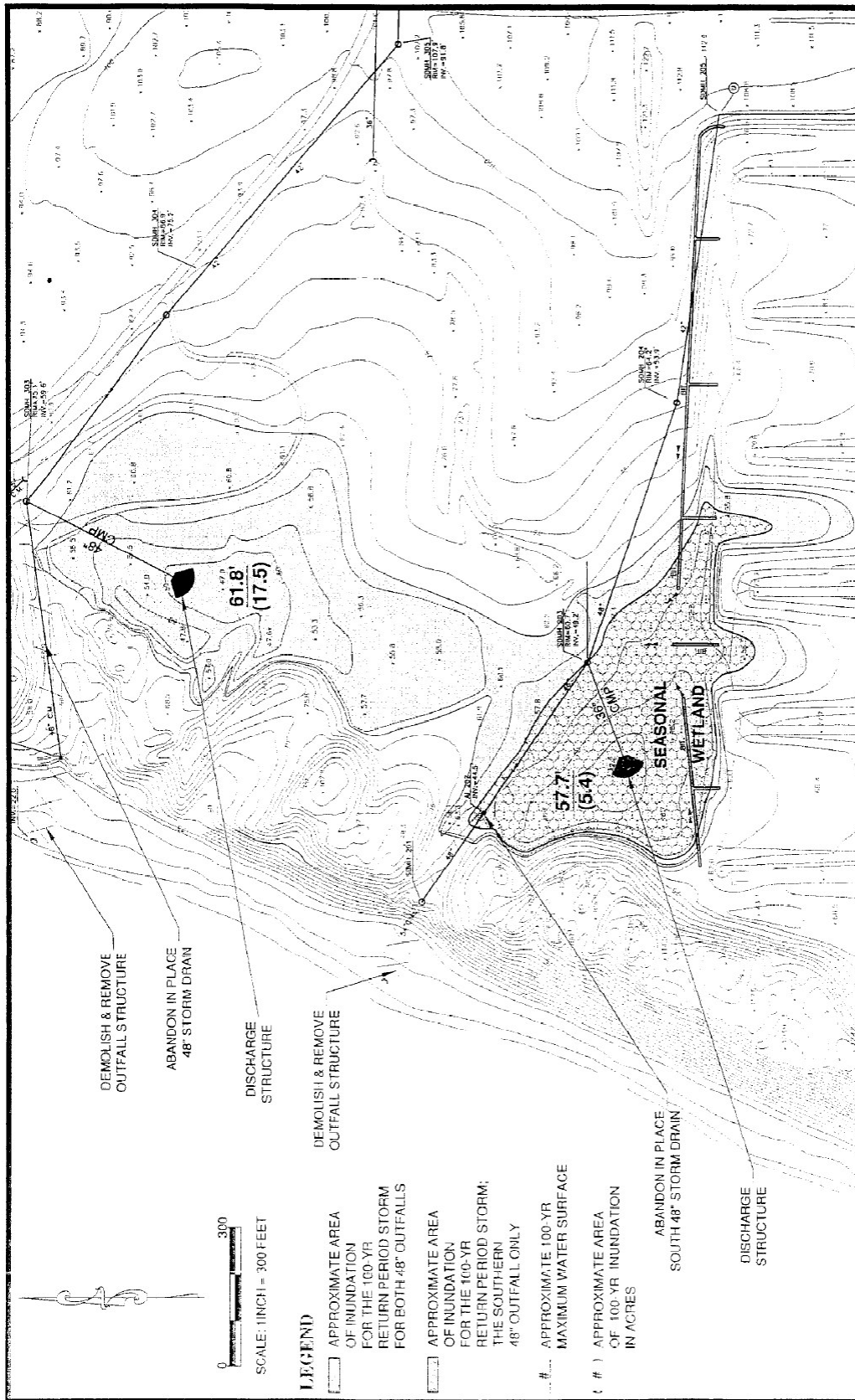
## **10. Federally Owned Airport**

There is no federally owned or operated airfield adjacent to or in the vicinity of the proposed project.

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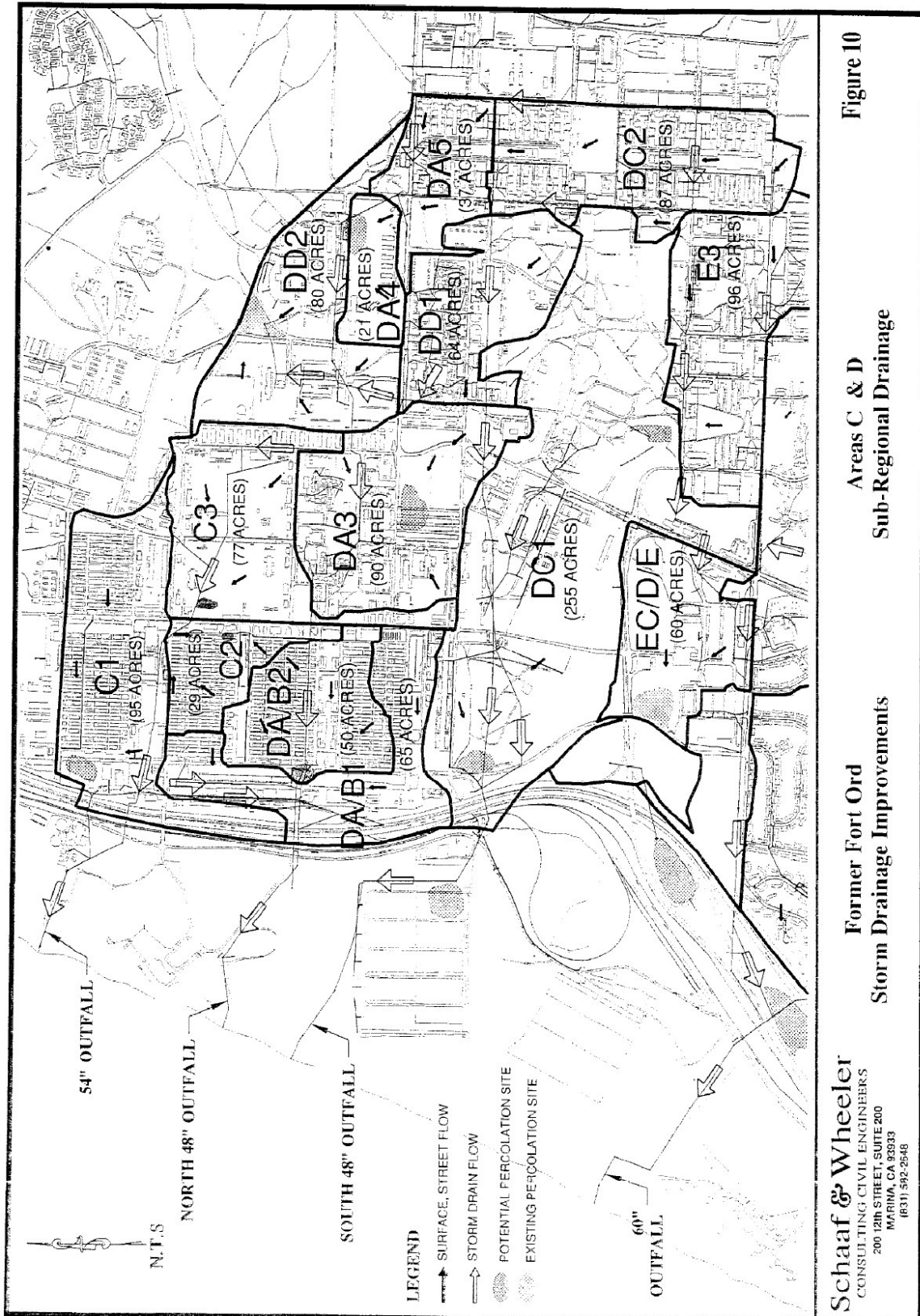


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**Former Fort Ord**  
**Storm Drainage Improvements**

**North & South 48-inch Outfalls**  
**Diversion & Percolation**

**Figure 7**

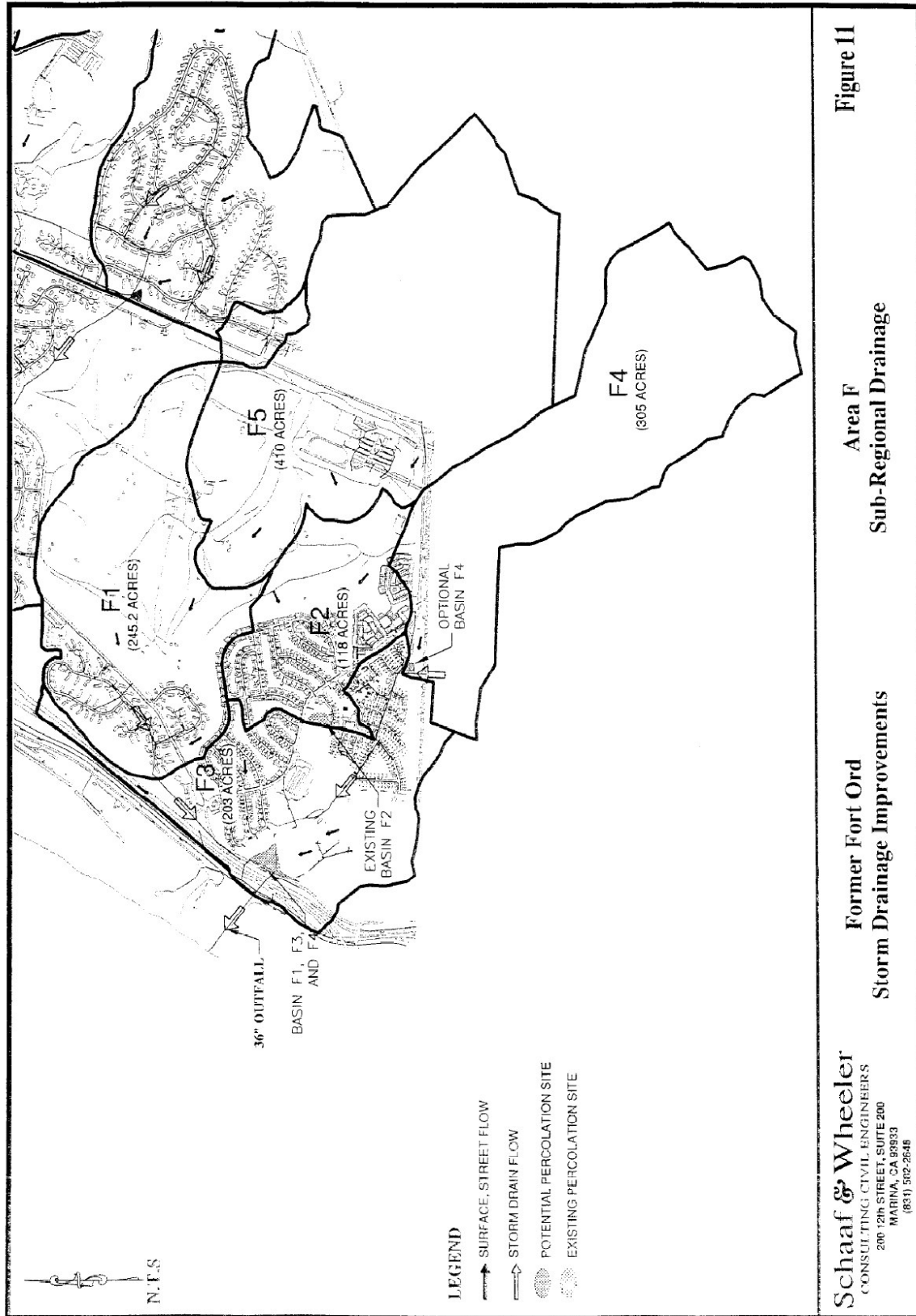


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**Former Fort Ord  
 Storm Drainage Improvements**

**Areas C & D  
 Sub-Regional Drainage**

**Figure 10**



## **1. PUBLIC EDUCATION AND OUTREACH**

All information pertaining to this Minimum Control Measure is contained in Appendix A.

## 2. PUBLIC INVOLVEMENT AND PARTICIPATION

Much of the work involved in carrying out the BMPs and meeting the Measurable Goals for this Minimum Control Measure was carried out as a group activity of the eight co-permittees, and is reported on in Appendix B. Only the information that is specific to this entity for certain of the BMPs and Measurable Goals is reported below in this Section. These BMPs and Measurable Goals are highlighted in **boldface** and with an asterisk in the tables below.

### Status of BMPs and Implementation Plans

<i><b>BMP Description</b></i>	<i><b>BMP No.</b></i>	<i><b>Implementation Plan</b></i>	<i><b>Status</b></i>					
			<i><b>Im ple men ted</b></i>	<i><b>Not Ap pli cable</b></i>	<i><b>Mod ified</b></i>	<i><b>Eff ective</b></i>	<i><b>Un known</b></i>	<i><b>Not Eff ective</b></i>
Encourage general public participation in programs and activities designed to promote understanding and awareness of storm water pollution, such as cleanup events and restoration activities.  (See pages E-23 through E-29 of Appendix E of the MRSWMP for the Public Participation and Involvement Program)	2-1.a	Draft annual report will be posted on the website and in city offices for review by public one month prior to Annual Workshop No. 2	X					
	2-2.a	Provide financial sponsorship support for Annual Coastal Cleanup Day in Monterey County or other local beach clean up efforts.	X					
	<b>2-2.b*</b>	<b>Recruit volunteers through municipal employee base and through advertising for Annual Coastal Clean Up Day or other local clean up efforts.</b>	X			X		
	<b>2-2.c*</b>	<b>Provide support for, or assistance with, storm drain stenciling through providing supplies, volunteer recruitment, and staff labor.</b>	X			X		
	2-2.d	Provide financial support for, or assistance with, volunteer monitoring programs and public participation events such as: Urban Watch, First Flush, Snapshot Day, and Walk N' Talk Days	X					

<b>BMP Description</b>	<b>BMP No.</b>	<b>Implementation Plan</b>	<b>Status</b>					
			<b>Implemented</b>	<b>Not Applicable</b>	<b>Modified</b>	<b>Effective</b>	<b>Unknown</b>	<b>Not Effective</b>
Become an active participant in the Citizen Water Quality Monitoring Network  (See pages E-23 through E-29 of Appendix E of the MRSWMP for the Public Participation and Involvement Program)	2-3.a	A representative from the MRSWMP group will become an active participant in the Citizen Water Quality Monitoring Network.	X					

#### Status of Measurable Goals

<b>BMP No.</b>	<b>Measurable Goal</b>	<b>Completed</b>	<b>Not Completed</b>	<b>Not Applicable</b>	<b>Comments</b>
2-1.a	All written public comments submitted and notes taken at workshop will be considered for inclusion in the annual report and kept on file.	X			
2-1.b	40 participants per workshop	X			
2-1.c	40 participants per workshop	X			
2-2.a	Annual financial sponsorship of up to \$500 to cover expenses not covered by sponsors.	X			

<b><i>BMP No.</i></b>	<b><i>Measurable Goal</i></b>	<b><i>Completed</i></b>	<b><i>Not Completed</i></b>	<b><i>Not Applicable</i></b>	<b><i>Comments</i></b>
<b>2-2.a*</b>	<b>Provide staffing that amounts to 40 hours for coordinating this event.</b>	<b>X</b>			<b>Carolina Rivera, the City's Volunteer Coordinator, worked with the coordinator of this event, Jill Poudrette of the California Department of Parks and Recreation, to assist with the event's activities within or close to the City. The City has participated in Coastal Cleanup Days in the past, and that typically provides access to City publicity resources, e.g. City Council meetings, brochures, etc. to promote the event. The City's Recreation Department staff participates along with the kids in this event, as well as the Youth Center and Teen Center staff members. Although not directly related to Coastal Cleanup Day, the City participated in an Earth Day event at the Locke Paddon Pond, and has done two beach cleanups with the Monterey Peninsula Regional Park District this year. Information describing these activities is also included at the end of this Appendix.</b>
<b>2-2.b*</b>	<b>Each permit holder to recruit volunteers through two separate agency channels; e.g. email, paycheck stuffers, internal newsletters, etc. Track recruitment efforts, coordination support and financial support, and track number of participants and volume of waste collected and report this information in the Annual Reports for the indicated years.</b>	<b>X</b>			<b>The City used paycheck inserts and email to recruit Coastal Cleanup Day volunteers. An overall report on the success of the event is included in Appendix B.</b>
	<b>Air radio advertising before the event to encourage public participation</b>	<b>X</b>			

<i><b>BMP No.</b></i>	<i><b>Measurable Goal</b></i>	<i><b>Completed</b></i>	<i><b>Not Completed</b></i>	<i><b>Not Applicable</b></i>	<i><b>Comments</b></i>
2-2.c	Utilization of 100 hours of staff time through “Save the Whales” nonprofit organization to recruit college and civic organizations for stenciling events.	X			
2-2.c*	<b>Provide stenciling equipment, supplies, and maps of inlets to be stenciled, and complete a minimum of 300 drains and tabulate areas stenciled. Percent of all entities completed per year will be approximately 5-10%.</b>	X			<b>Just prior to the start of the current reporting period (Year 1), the City had all of its inlets stenciled with the assistance of members of the local Boy Scout troop. However, no records were kept of the number of inlets that were stenciled. A spot check of inlets in the City was performed, and it was found that the stencils were still in good, readable condition. Thus, additional stenciling was not needed at this time. It should be noted that none of the inlets flows to a receiving water, rather they all flow to percolation ponds located entirely within the City limits.</b>
2-2.d	Provide \$13,000 annual contribution for Urban Watch for professional staffing, equipment, lab analysis, and report writing.	X			
	Provide \$1,500 annually for Urban Watch for print ads to recruit volunteers.	X			
	Provide \$3,000 annual contribution for First Flush for professional staffing, equipment, lab analysis, and report writing.	X			
	Purchase \$7,000 annually for radio ads to promote participation in First Flush	X			
	Provide \$1,500 annually for First Flush for print ads to recruit volunteers.	X			
	Provide \$1,000 annual contribution for Snapshot Day for professional staffing,	X			



<b><i>BMP No.</i></b>	<b><i>Measurable Goal</i></b>	<b><i>Completed</i></b>	<b><i>Not Completed</i></b>	<b><i>Not Applicable</i></b>	<b><i>Comments</i></b>
2-2.d (cont'd)	equipment, lab analysis, and report writing.				
	Provide \$500 annually for Snap Shot Day for print ads to recruit volunteers.	X			
	Provide \$300 to \$500 annually for Walk N' Talk to garner public participation and a co-host representative for each event.	X			
	Year 1: Based on existing scientific studies and data identify with specificity the geographic areas within the jurisdiction of each municipality that are sources of pollution, including T. Gondii, and other pathogens, impacting California sea otters and results included in the Annual Report; Year 2: Create and implement a program to reduce and eliminate the sources of pollution identified as impacting sea otters. The program and implementation will be described in the Annual Report.	X			
2-3.a	100% of monitoring network meetings to be attended annually by member of MRSWMP group.	X			

### 3. ILLICIT DISCHARGE DETECTION AND ELIMINATION

#### Status of BMPs and Implementation Plans

<i>BMP Description</i>	<i>BMP No.</i>	<i>Implementation Plan</i>	<i>Status</i>					
			<i>Im ple men ted</i>	<i>Not Ap pli cable</i>	<i>Mod ified</i>	<i>Eff ective</i>	<i>Un known</i>	<i>Not Eff ective</i>
Create a unified place for public to call in potential illicit discharges	3-1.a	Enter into an agreement with “911 Earth” to use their 1-800-CLEANUP hotline for the public to report illicit discharges by zip code	X				X	
	3-1.b	Advertise 1-800-CLEANUP call-in number on MRSWMP generated-media and educational materials	X				X	
	3-1.c	Using the protocol contained on pages E-30 through E-33 of Appendix E of the MRSWMP, investigate and take appropriate action on each report of illicit discharge that is received.	X			X		
Storm water system mapping	3-2.a	Complete preparation of the storm drain system map contained on pages E-34 through E-36 of Appendix E of the MRSWMP, showing the location of all outfalls discharging to waters of the state and other MS4s that receive discharges from those outfalls	X			X		
Implement and maintain a program to detect and eliminate illicit connections and/or discharges; i.e., sewer overflows, fluid dumping in catch basins etc.	3-3.a	Using the training materials contained on pages F-2 through F-7 of Appendix F of the MRSWMP, train inspection personnel and other municipal staff, and obtain resources necessary to inspect businesses.	X			X		

<b>BMP Description</b>	<b>BMP No.</b>	<b>Implementation Plan</b>	<b>Status</b>					
			<b>Implemented</b>	<b>Not Applicable</b>	<b>Modified</b>	<b>Effective</b>	<b>Unknown</b>	<b>Not Effective</b>
Implement and maintain a program to detect and eliminate illicit connections and/or discharges; i.e., sewer overflows, fluid dumping in catch basins etc.	3-3.b	Using the inventory of businesses to be inspected and the inspection checklists contained on pages E-37 through E-77 of Appendix E of the MRSWMP, prioritize the businesses to be inspected, and perform compliance inspections on these businesses to identify illicit connections and illegal discharges. Discharges to Environmentally Sensitive Areas, discharges to Areas of Special Biological Significance, restaurants/fast food chains, auto repair shops, and gas stations will receive top prioritization in scheduling these inspections.	X	X				
	3-3.c	Create hotline for public reporting of illicit connections	X				X	
Implement and maintain a program to detect and eliminate illicit connections and/or discharges; i.e., sewer overflows, fluid dumping in catch basins etc.	3-3.d	Using the protocol contained on pages E-78 through E-79 and E-95 through E-98 of in Appendix E of the MRSWMP, take action as necessary to eliminate 100% of the illicit connections and illegal discharges that are identified in this year	X			X		

<b>BMP Description</b>	<b>BMP No.</b>	<b>Implementation Plan</b>	<b>Status</b>					
			<b>Implemented</b>	<b>Not Applicable</b>	<b>Modified</b>	<b>Effective</b>	<b>Unknown</b>	<b>Not Effective</b>
<p>Adopt an ordinance with standards for storm water pollution prevention.</p> <p>Ordinance to include definitions of illegal disposal activities, including requirements pertaining to mat wash downs, hood cleaning, etc., and requiring firms to notify Public Works of all such cleaning activities, with penalties for violations. Ordinance will also outline responsibility for any clean up determined necessary.</p>	3-4.a	Using the guidance document and model ordinance contained on pages E-80 through E-98 of Appendix E of the MRSWMP, each Participating Entity will adopt a storm water ordinance revised to be specific to each entity's needs through appropriate governing body procedures.	X	X				
Implement a permit boundary-wide education program addressing the negative effects on water quality through illegal discharges, improper waste disposal and other non-storm water discharges.	3-6.a	This is included in the Public Education and Outreach Program contained on pages E-1 through E-23 of Appendix E of the MRSWMP.	X			X		

## Status of Measurable Goals

<i><b>BMP No.</b></i>	<i><b>Measurable Goal</b></i>	<i><b>Completed</b></i>	<i><b>Not Completed</b></i>	<i><b>Not Applicable</b></i>	<i><b>Comments</b></i>
3-1.a	Date agreement was executed	X			Earth 911, the organization that operates the 1-800-CLEANUP hotline system, does not use a written agreement, but simply activates an entity's hot line voice prompts on its call-in system based on information provided by the entity via email. The system was activated with the City's voice prompt information in February 2007, and has been continuously active ever since.
3-1.b	Advertised on a minimum of 8 different media pieces: 4 in English, 4 in Spanish	X			See Appendix A for information regarding this BMP, which was performed by the eight co-permittees as a group activity.
3-1.c	100% of all reports of illicit discharge investigated and report on outcome of each case in the form of "closed", "ongoing enforcement", or "still investigating source".	X			The Public Works, Police Department, Building Department, and Fire Department staff all use the "Illicit Discharge/Connection Reporting and Response" form contained on page E-33 of the MRSWMP to track incidents. Code Enforcement officers may become involved, depending on the nature of the incident. Forms filled out by the other departments will be forwarded to the Public Works Department for compilation into the annual report. No reports were received during the current reporting period.

<i><b>BMP No.</b></i>	<i><b>Measurable Goal</b></i>	<i><b>Completed</b></i>	<i><b>Not Completed</b></i>	<i><b>Not Applicable</b></i>	<i><b>Comments</b></i>
3-2.a	Each Participating Entity to complete its mapping by end of Year 1, except Monterey County which will complete its mapping by end of Year 3	X			<p>The City's storm drainage system map showing all of the City's percolation ponds, as well as its internal storm drainage system components, was updated during the current reporting period (Year 1). There are no storm water discharges from within the city to any receiving waters. All storm water runoff within the city flows through street gutters and into drainage inlets and through pipes to percolation ponds. There are only short lengths of storm drain piping within the city, because there are percolation ponds scattered throughout the city, so all drainage inlets are reasonably close to a percolation pond.</p> <p>Because the City has no outfalls to receiving waters, the map contained in Appendix K does not show any discharges from the City.</p>
3-3.a	Sufficient personnel trained and prepared to perform inspections beginning in Year Two	X			<p>Because the City intends to hire the MRWPCA to perform its inspections, the City did not send any representatives to attend this training session for this BMP, which was put on as a group activity by the eight co-permittees on May 22, 2007. A number of personnel from MRWPCA did attend the training session. The trainer, Mr. Robert Ketley, provided a comprehensive training program covering all of the subject areas necessary to carry out the inspections required under this BMP. A description of the training program is contained in the body of the MRSWMP Annual Report document.</p>

<i><b>BMP No.</b></i>	<i><b>Measurable Goal</b></i>	<i><b>Completed</b></i>	<i><b>Not Completed</b></i>	<i><b>Not Applicable</b></i>	<i><b>Comments</b></i>
3-3.b	Minimum of 100% of inventoried businesses inspected by the end of the permit term.		X		If the City's request for termination of coverage under the SWRCB's General Permit is denied, business inspections will begin as soon as a contract with MRWPCA to perform the inspections has been finalized. A decision from the RWQCB on the request for termination is expected to be received in the fall of 2007. This short delay in starting the inspections will not prevent the City from fulfilling the Measurable Goal of 100% inspections completed by the end of Year 5.
3-3.c	See BMP 3-1.a	X			See the Comments for See BMP 3-1.a.
3-3.d	100% of all reports of illicit connections and illegal discharges investigated and report on outcome of each case in the form of "closed", "ongoing enforcement", or "still investigating source".	X			No reports were received, so no enforcement actions were necessary. See also the Comments above under BMP 3-1.c.
3-4.a	Date ordinance implemented (implemented within 3 months of permit coverage for all entities except Monterey County, which will implement within 6 months of permit coverage)		X		The City has not adopted its storm water ordinance, as it waiting for a decision from the RWQCB regarding its request for termination of coverage under the SWRCB's General Permit. If the request is denied, the City will move forward with adopting the ordinance immediately after receiving such notice, and will have it adopted during Year 2.
3-6.a	Summary of methods used to educate the public about the impacts of illegal discharges and improper waste disposal to be included in the Annual Reports.	X			See Appendix A for information regarding this BMP, which was performed by the eight co-permittees as a group activity.

# CONSTRUCTION SITE STORM WATER CONTROL

## Status of BMPs and Implementation Plans

<i><b>BMP Description</b></i>	<i><b>BMP No.</b></i>	<i><b>Implementation Plan</b></i>	<i><b>Status</b></i>					
			<i><b>Im ple men ted</b></i>	<i><b>Not Ap pli cable</b></i>	<i><b>Mod ified</b></i>	<i><b>Eff ective</b></i>	<i><b>Un known</b></i>	<i><b>Not Eff ective</b></i>
<p>Adopt an ordinance with standards for storm water pollution prevention associated with construction activities.</p> <p>Ordinance to include standards for general construction site waste management for construction activities as defined by the General Construction Storm Water Permit</p>	4-1.a	<p>Using the guidance document and model ordinance contained on pages E-84 through E-98 and E-125 through E-131 of Appendix E of the MRSWMP, each Participating Entity will adopt a storm water ordinance revised to be specific to each entity's needs through appropriate governing body procedures</p>	X	X				
<p>Implement procedures for site inspection and enforcement of BMP control measures</p>	4-3.a	<p>Train appropriate staff on the construction site inspection procedures. Topics to be covered in this training will be the applicable portions of the materials contained on pages E-125 through E-136 of Appendix E, consisting of:</p> <ol style="list-style-type: none"> <li>1. The Guidance Document for Policies and Procedures Pertaining to Construction Sites</li> <li>2. Construction Site Plan Review and Inspection Procedures</li> <li>3. Inspection Checklist for Construction Sites</li> </ol>	X			X		
<p>Implement procedures for receipt and consideration of information submitted by the public regarding storm water runoff impacts associated with construction projects.</p>	4-4.a	<p>Use the procedures contained on pages E-30 through E-33 of Appendix E of the MRSWMP to facilitate the receipt of, and the response to, reports from the public of storm water pollution from construction sites.</p>	X			X		



<i><b>BMP Description</b></i>	<i><b>BMP No.</b></i>	<i><b>Implementation Plan</b></i>	<i><b>Status</b></i>					
			<i><b>Implemented</b></i>	<i><b>Not Applicable</b></i>	<i><b>Modified</b></i>	<i><b>Effective</b></i>	<i><b>Unknown</b></i>	<i><b>Not Effective</b></i>
Implement a permit boundary-wide education program addressing the negative effects on water quality from improperly managed construction site runoff.	4-4.b	<p>Twice per year at construction contractor professional meetings, present an educational program regarding prevention of storm water pollution from construction sites. The program will cover the four guiding principles for controlling runoff from construction sites, which are included in the BMP Guidance Series:</p> <ul style="list-style-type: none"> <li>• Construction site planning</li> <li>• Minimization of soil movement</li> <li>• Capturing of Sediment</li> <li>• Good housekeeping practices</li> </ul> <p>At these presentations handouts describing construction site permitting procedures and construction site BMPs will also be distributed.</p>	X			X		

#### **Status of Measurable Goals**

<i><b>BMP No.</b></i>	<i><b>Measurable Goal</b></i>	<i><b>Completed</b></i>	<i><b>Not Completed</b></i>	<i><b>Not Applicable</b></i>	<i><b>Comments</b></i>
4-1.a	Date ordinance implemented (implemented within 3 months of permit coverage for all entities except Monterey County, which will implement within 6 months of permit coverage)	X			See the Comments above under the Measurable Goal for BMP 3-4.a

<b><i>BMP No.</i></b>	<b><i>Measurable Goal</i></b>	<b><i>Completed</i></b>	<b><i>Not Completed</i></b>	<b><i>Not Applicable</i></b>	<b><i>Comments</i></b>
4-3.a	100 % of existing appropriate staff trained by Year 2, then all new appropriate employees every year after that, with periodic refresher training provided	X			Maziar Bozorginia and Naser Moinpour from the City's Public Works Department and Jay Jones, from the City's Building Department, attended the training session for this BMP, which was put on as a group activity by the eight co-permittees on August 7, 2007. The trainer, Mr. Robert Ketley, provided a comprehensive training program covering all of the subject areas necessary to perform the plan reviews and to carry out the inspections required under this BMP. A description of the training program is contained in the body of the MRSWMP Annual Report document.
4-4.a	100% of all reports of construction site storm water pollution investigated and report on outcome of each case in the form of "closed", "ongoing enforcement", or "still investigating source".	X			Construction sites within the City are inspected by the City's Building and Public Works Inspectors, who track these incidents as described in the Comments above under the Measurable Goal for BMP 3-1.c. These personnel provide information and advice to contractors regarding storm water pollution prevention issues when they visit the job sites. Thus far it has not been necessary to take any enforcement actions.
4-4.b	Provide educational programs that reach at least 20 construction firms each year.	X			This Measurable Goal was met by all eight of the co-permittees as a group activity, and is reported on in the body the MRSWMP Annual Report.

The table below, recommended in the SWRCB's guidelines for the preparation of Annual Reports, summarizes the results of construction-related BMPs and Measurable Goals for the current reporting period.

<b>Issue</b>	<b>This Reporting Period</b>	<b>Last Reporting Period</b>	<b>Comments</b>
How many erosion and sediment control plans were reviewed?	N/A	N/A	The Construction Site BMP Guidance Series requirements do not go into effect until the start of permit Year 2 (the next reporting period).
How many construction sites were inspected to determine compliance with your construction storm water requirements?	N/A	N/A	The Construction Site BMP Guidance Series requirements do not go into effect until the start of permit Year 2 (the next reporting period).
At how many construction sites were violations noted?	N/A	N/A	The Construction Site BMP Guidance Series requirements do not go into effect until the start of permit Year 2 (the next reporting period).
At these sites, how many site owners or operators were penalized through a formal enforcement action?	N/A	N/A	The Construction Site BMP Guidance Series requirements do not go into effect until the start of permit Year 2 (the next reporting period).

## 5. POST-CONSTRUCTION STORM WATER MANAGEMENT

### Status of BMPs and Implementation Plans

<i><b>BMP Description</b></i>	<i><b>BMP No.</b></i>	<i><b>Implementation Plan</b></i>	<i><b>Status</b></i>					
			<i><b>Im ple men ted</b></i>	<i><b>Not Ap plic able</b></i>	<i><b>Mod ified</b></i>	<i><b>Eff ective</b></i>	<i><b>Un known</b></i>	<i><b>Not Eff ective</b></i>
<p>Adopt an ordinance with standards for storm water pollution prevention associated with storm water systems installed in new developments and redevelopments.</p> <p>Ordinance to include standards for the design, operation, and maintenance of post-construction storm water pollution prevention systems in new developments and redevelopment.</p>	5-1.a	<p>Using the guidance document and model ordinance contained on pages E-84 through E-98 and E-137 through E-143 of Appendix E of the MRSWMP, each Participating Entity will adopt a storm water ordinance revised to be specific to each entity's needs through appropriate governing body procedures.</p>	X	X				

### Status of Measurable Goals

<i><b>BMP No.</b></i>	<i><b>Measurable Goal</b></i>	<i><b>Completed</b></i>	<i><b>Not Completed</b></i>	<i><b>Not Applicable</b></i>	<i><b>Comments</b></i>
5-1.a	Date ordinance implemented (implemented within 3 months of permit coverage for all entities except Monterey County, which will implement within 6 months of permit coverage)	X			See the Comments above under the Measurable Goal for BMP 3-4.a

The table below, recommended in the SWRCB's guidelines for the preparation of Annual Reports, summarizes the results of New Development/Redevelopment-related BMPs and Measurable Goals for the current reporting period.

<b>Issue</b>	<b>This Reporting Period</b>	<b>Last Reporting Period</b>	<b>Comments (ex. frequently seen project types, types of BMPs)</b>
How many post-construction plans were reviewed?	N/A	N/A	The New Development and Redevelopment BMP Guidance Series requirements do not go into effect until the start of permit Year 3.
How many plans included post-construction BMPs?	N/A	N/A	The New Development and Redevelopment BMP Guidance Series requirements do not go into effect until the start of permit Year 3.
How many sites were inspected to verify installation of post-construction BMPs?	N/A	N/A	The New Development and Redevelopment BMP Guidance Series requirements do not go into effect until the start of permit Year 3.
How many sites were inspected to verify the proper operation and maintenance of post-construction BMPs?	N/A	N/A	The New Development and Redevelopment BMP Guidance Series requirements do not go into effect until the start of permit Year 3.

## 6. POLLUTION PREVENTION AND GOOD HOUSEKEEPING FOR MUNICIPAL OPERATIONS

### Status of BMPs and Implementation Plans

<i><b>BMP Description</b></i>	<i><b>BMP No.</b></i>	<i><b>Implementation Plan</b></i>	<i><b>Status</b></i>					
			<i><b>Im ple men ted</b></i>	<i><b>Not Ap pli cable</b></i>	<i><b>Mod ified</b></i>	<i><b>Eff ective</b></i>	<i><b>Un known</b></i>	<i><b>Not Eff ective</b></i>
Implement an education and training program for employees (general and then specific to targeted employee groups, including supervisors) about the impacts of storm water pollution from municipal activities and hazardous materials disposal, and how to implement the selected BMPs to reduce these impacts.	6-1.a	Using the training outline and materials contained on pages F-22 through F-34 of Appendix F of the MRSWMP, train appropriate municipal employees (including supervisors) on storm water pollution issues.	X			X		
Inspection program of municipal hazardous materials storage facilities	6-2.a	Promptly correct any hazardous materials inspection deficiencies reported by the County inspectors, who are responsible for all of the hazardous materials inspections in Monterey County. (The inspection forms used by the County are contained on pages E-146 through E-168 of Appendix E of the MRSWMP and indicate the thoroughness that the County's inspections entail.)	X			X		
Implement a program that effectively manages landscaping and lawn care activities to minimize the potential for storm water pollution.	6-4.a	Train municipal staffs to use the procedures contained on pages E-175 through E-176 of Appendix E of the MRSWMP to properly manage landscape and lawn care activities. Offer training to other agencies such as school districts beginning in Year 3.	X			X		
	6-4.b	Perform spraying during times where rain is not predicted	X			X		

<b>BMP Description</b>	<b>BMP No.</b>	<b>Implementation Plan</b>	<b>Status</b>					
			<b>Im ple men ted</b>	<b>Not Ap plic able</b>	<b>Mod ified</b>	<b>Eff ective</b>	<b>Un known</b>	<b>Not Eff ective</b>
Implement procedures to ensure the dechlorination and/or debromination of pool water prior to discharge to the storm water system	6-5.a	Use the procedures contained on pages E-177 through E-179 of in Appendix E of the MRSWMP for the proper disposal of swimming pool water.		X				
Conduct sweeping on a frequent and regular basis and focus sweeping schedule on high impact/dry weather sites	6-6.a	Conduct sweeping on a regular basis in accordance with the programs and plans contained on pages E-180 through E-196 of Appendix E of the MRSWMP.	X			X		
Implement a program to prevent pollutants from automotive activities, such as vehicle fluids, from entering storm drains	6-7.a	Provide designated area for all vehicle maintenance.	X			X		
	6-7.b	Move maintenance and repair activities indoors or under a covered area whenever possible	X			X		
	6-7.d	Stencil all storm drain inlets in corporation yard areas		X				
	6-7.e	Using the Vehicle Service Facilities Inspection Checklist contained on pages E-71 through E-77 of Appendix E of the MRSWMP, inspect the MS4's vehicle maintenance facilities annually and correct any deficiencies noted.	X			X		
	6-7.f	Store materials and wastes under cover whenever possible	X			X		
	6-7.g	Train all employees repairing municipal vehicles on proper pollution prevention techniques	X			X		
Implement a program to prevent pollutants from washing municipal vehicles, such as vehicle fluids and phosphate soaps, from entering storm drains.	6-8.a	Training of municipal employees in proper vehicle washing techniques	X			X		
	6-8.b	Using the vehicle washing portion of the Vehicle Service Facilities Inspection Checklist contained on pages E-75 through E-76 of Appendix E of the MRSWMP, inspect the MS4's vehicle washing facilities annually and correct any deficiencies noted.	X			X		

<b>BMP Description</b>	<b>BMP No.</b>	<b>Implementation Plan</b>	<b>Status</b>					
			<b>Implemented</b>	<b>Not Applicable</b>	<b>Modified</b>	<b>Effective</b>	<b>Unknown</b>	<b>Not Effective</b>
Implement a program of regularly cleaning storm drains and inlets to prevent accumulated pollutants from being discharged with the storm water (See Appendix E of the MRSWMP for a complete discussion of the work to be performed under BMP 6-10	6-10.a	Stencil catch basins and inlets as needed as prevention measure	X			X		
	6-10.b	Inspect catch basins and inlets in the designated “hot spots” listed on page E-199 of Appendix E of the MRSWMP annually prior to rainy season, and clean as necessary	X			X		
	6-10.c	Clean and repair catch basins, inlets and piping as identified through inspections prior to November 1 <sup>st</sup> annually	X			X		
	6-10.d	Re-inspect identified problem areas of debris accumulation during wet season	X			X		
	6-10.e	Keep documentation of inspections and cleanings	X			X		



## Status of Measurable Goals

<i><b>BMP No.</b></i>	<i><b>Measurable Goal</b></i>	<i><b>Completed</b></i>	<i><b>Not Completed</b></i>	<i><b>Not Applicable</b></i>	<i><b>Comments</b></i>
6-1.a	100 % of existing appropriate staff trained by Year 2, then all new employees every year after that. Perform pre- and post-training testing to measure training effectiveness.	X			From the Public Works and Community Development Departments, Gale Jazud, Dan Sepagan, Jim Brickman, James Short, Oscar Orange, Linwood Heath, Kris Bailey, Ed Meachum, Mike Mills, Kelly Hammond, Sam Missori, Scott Licini, Gary Cramblett, and James Fellini attended the training session for this BMP, which was put on as a group activity by the eight co-permittees on February 14 and 21, 2007. In addition to the personnel who attended those training sessions, the City's Fire Department conducted its own inhouse training session for 11 of its staff members during the month of August, using a professionally prepared training video titled "Municipal Storm Water Pollution Prevention." This video training program covers essentially the same topics as were covered in the training session put on as a group activity in February. A listing of those City staff members who took this video training program and completed pre-and post-training tests is included at the end of this Appendix. The tests indicated that their knowledge of this material improved by 7% as a result of the inhouse training, with post-testing results showing an average score of 99% correct answers.

<i><b>BMP No.</b></i>	<i><b>Measurable Goal</b></i>	<i><b>Completed</b></i>	<i><b>Not Completed</b></i>	<i><b>Not Applicable</b></i>	<i><b>Comments</b></i>
6-2.a	100% of noted deficiencies corrected within 30 days of notification by the County			X	The City is normally inspected once per year by the Monterey County Health Department, which is the CUPA for performing Hazardous Materials inspections within Monterey County. A copy of the inspection forms from the inspections performed during the summer of 2007 is included at the end of this Appendix. No deficiencies were found in these inspections, so no corrective action was required.
6-4.a	Measures to minimize irrigation runoff, as described in Appendix E of the MRSWMP, applied to 80% or more of the irrigation sites under the jurisdiction's control	X			From the City Kelly Hammond, Kris Bailey, Scott Licini, and Dan Sepagan attended the training session for this BMP, which was put on as a group activity by the eight co-permittees on May 3, 2007. The trainer, Mr. Phil Boise of Urban Ag Ecology, provided a comprehensive training program covering the IPM, landscape management, and irrigation issues required under this BMP. A description of the training program is contained in the body of the MRSWMP Annual Report document. The City regularly inspects its irrigation systems and promptly corrects any problems that are observed during these inspections.

<i><b>BMP No.</b></i>	<i><b>Measurable Goal</b></i>	<i><b>Completed</b></i>	<i><b>Not Completed</b></i>	<i><b>Not Applicable</b></i>	<i><b>Comments</b></i>
6-4.b	100% of spraying done when rain is not predicted	X			The City submits a regular monthly report to the Monterey County Agricultural Commissioner's office describing its spraying activities. Spraying is performed in accordance with manufacturer's directives regarding spraying during or shortly prior to rainfall. A representative copy of this form is included at the end of this Appendix.
6-5.a	Pool water dechlorinated and/or debrominated prior to discharge to storm drain system 100% of the time			X	The City does not own or operate any swimming pools, so this BMP is not applicable to the City.
6-6.a	100% of Sweeping in each MS4 performed in accordance with the MS4's Plan	X			Information describing the City's street sweeping program that fulfills the requirements of this BMP is included at the end of this Appendix. One of the measures described in the "Sweeping and Cleaning" procedures on page E-180 of the MRSWMP is to inform residents of the street sweeping schedules, so they can keep their vehicles off the street in order to enable the sweeper to most effectively perform sweeping. The eight co-permittees concluded that the most cost-effective means of notifying residents of the scheduled street sweeping programs in each entity would be through the placement of display ads in the newspapers of general circulation within those entities. These ads were placed in late June and early July 2007 to accomplish the objective of notifying residents of the importance of street sweeping in preventing storm water pollution, and to enable them to learn what the normal sweeping days are for their streets.

<b><i>BMP No.</i></b>	<b><i>Measurable Goal</i></b>	<b><i>Completed</i></b>	<b><i>Not Completed</i></b>	<b><i>Not Applicable</i></b>	<b><i>Comments</i></b>
6-7.a	100% of MS4s have designated area for vehicle maintenance	X			The City performs all of its vehicle maintenance work at a designated vehicle maintenance facility (an enclosed garage) at the Corporation Yard.
6-7.b	100% maintenance and repair activities moved indoors or covered area whenever possible	X			As noted in the Comments under BMP 6-7.a above, this Measurable Goal has been fulfilled.
6-7.d	100% of storm drain inlets in the corporation yard stenciled by end of Year 1 and any new inlets which may be created stenciled immediately after being built. Stenciling redone in Year 5.			X	There are no storm drains inlets within the Corporation Yard compound. Rather, all storm water runs off into the adjacent sandy areas where it percolates, so this BMP is not applicable to the City.
6-7.e	100% of noted deficiencies corrected.	X			The City inspected its vehicle maintenance facilities on June 1, 2007. Only a few deficiencies were found during the inspection, and these are in the process of being corrected. A copy of the completed inspection form is included at the end of this Appendix.
6-7.f	100% of materials stored under cover whenever possible	X			As noted in the information provided for BMPs 6-7.a, 6-7.b, and 6-7.e, all automotive materials and wastes are properly stored at the Corporation Yard.
6-7.g	This training is included in BMP 6-1.a	X			See Comments under the Measurable Goal for BMP 6-1.a.
6-8.a	This training is included in BMP 6-1.a	X			See Comments under the Measurable Goal for BMP 6-1.a.

<i><b>BMP No.</b></i>	<i><b>Measurable Goal</b></i>	<i><b>Completed</b></i>	<i><b>Not Completed</b></i>	<i><b>Not Applicable</b></i>	<i><b>Comments</b></i>
6-8.b	100% of noted deficiencies corrected.	X			The vehicle wash area at the City's Corporation Yard was inspected in conjunction with performing the inspection under BMP 6-7.e. No deficiencies were found during the inspection. A copy of the completed inspection form is included with the materials pertaining to BMP 6-7.e at the end of this Appendix. In approximately two years the City expects to construct a new fire station. The new station could potentially include a properly drained wash rack for the fire trucks. The City is currently evaluating interim methods of preventing runoff from the washing of its fire trucks, which is presently performed in front of the fire station, from flowing into the storm drain system.
6-10.a	Stenciling is covered under BMP 2-2.c	X			See Comments under the Measurable Goal for BMP 2-2.c.

<i><b>BMP No.</b></i>	<i><b>Measurable Goal</b></i>	<i><b>Completed</b></i>	<i><b>Not Completed</b></i>	<i><b>Not Applicable</b></i>	<i><b>Comments</b></i>
6-10.b	100% of “hot spot” catch basins and inlets inspected, and cleaned as necessary, each year prior to start of rainy season	X			It is the City’s standard practice that before each rainy season (typically in September) all of the catch basins in the City are inspected, and cleaned if necessary. Cleaning is performed by using the vacuum capabilities of the City’s street sweeper. Cleaning includes cutting and removing weeds and other growth, followed by scarifying the bottom with a tractor. All of the percolation ponds are owned by the City, not by the private developments that they serve. The inspection and cleaning process begins each year in the downtown area, and then expands out into the rest of the City. It takes approximately two weeks to complete this process. All of the storm drains flow to percolation ponds, so all trash that is not removed from the storm drain system ends up in the ponds, which are cleaned each summer. Therefore, all trash is removed and properly disposed of, and not discharged to any receiving water, even if it is not fully removed from the catch basins. The storm drain cleaning procedures are described in the material for BMP 6-10.c at the end of this Appendix.

<b><i>BMP No.</i></b>	<b><i>Measurable Goal</i></b>	<b><i>Completed</i></b>	<b><i>Not Completed</i></b>	<b><i>Not Applicable</i></b>	<b><i>Comments</i></b>
6-10.c	By November 1 <sup>st</sup> annually, address cleaning and repair needs of prioritized catch basins, inlets & piping as identified during inspections	X			All storms drains including hot spots are inspected and cleaned as necessary each year before the start of the rainy season. Any repairs found necessary during the inspections are performed as soon as possible after the inspections are completed. A description of the City's Storm Drain System Inspection and Maintenance procedures is included at the end of this Appendix. See also the Comments under BMP 6-10.b above.
6-10.d	Re-inspect 100% of problem areas	X			The City has no real storm drain problem areas, except for one catch basin near the Post Office. That catch basin has no outlet pipe, and is in reality just a containment and percolation structure that does not always percolate fast enough to keep from filling up and overflowing. When it fills up the City uses its street sweeper vacuum system to pump out the water and sediment from the catch basin.  It is the City's standard practice of performing frequent winter inspections throughout the storm drainage system, as described in the materials for BMP 6-10.c at the end of this Appendix.
6-10.e	Documentation kept on file	X			The results of the field work to keep the system cleaned and fully operable are documented using individual time cards from the Public Works staff members who perform this work. See also the Comments under BMP 6-10.b above.

## **SUPPORTING MATERIALS FOR BMP 2-2.a**



## Earth Day 2007 at Locke Paddon Park Committee

Organization	First Name	Last Name	Address	City	State	Zip	Phone
Scouts	Pat	Clark-Gray	3245 Juniper Ct.	Marina	CA	93933	384-5119 277-5119
Emcee	Boynton	Richard	251 Hillcrest Ave	Marina	CA	93933	402-8215
CHCF	Bruce	Delgado	3037 Vaughan	Marina	CA	93933	277-7690
MRCSD	Jackie	Gonzales	3197 Vista Del Camino	Marina	CA	93933	905-9994 884-9542
MPRWMD	Kim	Herring		Marina			
Marina Fire	Brad	Hinkley	211 Hillcrest Ave	Marina	CA	93933	884-1226
Marina Fire	Chief Harold	Kelly	211 Hillcrest Ave	Marina	CA	93933	884-1244
			211 Hillcrest Ave	Marina	CA	93933	884-1244
			211 Hillcrest Ave	Marina	CA	93933	884-1244
MPRPD	Tim	Jensen	60 Garden Ct., Ste 325	Monterey	CA	93940	372-3196
CSUMB	Laura Lee	Lienk	100 Campus Ctr	Seaside	CA	93955	582-3689
Marina Library	Lenore	Masterson	360 Everett Dr.	Marina	CA	93933	883-3968
Teen Center	Cathy	Meachum		Marina	CA	93933	601-6048
MPRPD	Jackie	Nelson	60 Garden Ct., Ste 325	Monterey	CA	93940	372-3196
Rotary	Carlos & Diane	Noriega	1706 Eichelberger	Marina	CA	93933	883-1400
Marina Library	Sue Ann	Oxley	3106 Lake Dr Apt 16	Marina	CA	93933	384-4506
Farmer's Mkt	Iris	Peppard	100 Campus Ctr	Seaside	CA	93955	384-6961
Farmer's Mkt	Ashley	Torres	100 Campus Ctr	Seaside	CA	93955	883-9551
MRCSD	Terry	Siegrist	211 Hillcrest Ave	Marina	CA	93933	884-1231
Marina Public Works	Dan		211 Hillcrest Ave	Marina	CA	93933	760-0281
Garden Club	Tina	Walsh	3010 Lake Ct.	Marina	CA	93933	373-1251
Lions	Cindy	Virtue	304 Carmel Ave	Marina	CA	93933	277-0435
City of Marina	Gary	Wilmot	3197 Vista Del Camino	Marina	CA	93933	905-3799
MPRPD	Debbie	Wyatt	60 Garden Ct., Ste 325	Monterey	CA	93940	372-3196
Basketry	Linda	Yamane	800 Del Monte Center	Monterey	CA	93940	333-1600
Marina Coast H2O Dist	Rich	Youngblood	2840 4th Ave.	Marina	CA	93933	883-5928
Wal Mart #4488	Mark	Blome	150 Beach Rd	Marina	CA	93933	883-9138
Wal Mart #4488	John	Martinez	150 Beach Rd	Marina	CA	93933	883-9138
Grocery Outlet							
Marina Grange							
Whole Foods Market	Kyle	Brandow	800 Del Monte Center	Monterey	CA	93940	
	Lara	Ferry -Graham	148 Seal Ct	Marina	CA	93933	
MPRPD Staff	Tim	Jensen					
MPRPD Staff	Amanda	Jones					

MPRPD Staff	Lynne	Overtree			
MPRPD Docent	Jim	McCammon	109 Quien Sabe	Carmel Valley	CA 93924 384-1918
MPRPD Docent	Lynne	McCammon	109 Quien Sabe	Carmel Valley	CA 93924 384-1918
MPRPD Docent	Paulette	Struckman			
MPRPD Docent	Gordon	Williams			
MPRPD Docent	Gerrie	Mejia			
MPRPD Docent	Cath	Farrant	235 Crocker Ave	Pacific Grove	CA 93950
MPRPD Docent	Walley	LeValley	11 Paso Hondo	Carmel Valley	CA 93924
MPRPD Docent	Merrill	Jones			
MPRPD Docent	Norm	Nelson			
MPRPD Docent	Virginia	Bloomer	1997 Del Monte	Seaside	CA 93955
MPRPD Docent	Elsie	McDonald			
Troop 134	Stephe	Daguio	3054 Sunrise Cir	Marina	CA 93933 601-5390
Troop 134	Jessica	Daguio	3054 Sunrise Cir	Marina	CA 93933 601-5390
Troop 134	Kurt	Dulle	301 Aachen	Seaside	CA 93955 899-1033
Troop 134	Gunnar	Dulle	301 Aachen	Seaside	CA 93955 899-1033
Troop 134	Sebastian	Tamiano	335 Lievry Way	Marina	CA 93933
Troop 134	Cody	Rhodes	841 Sherman Ct	Marina	CA 93933
Troop 134	Bryan	Kawakami	323 Reindollar Ave	Marina	CA 93933 601-2260
Troop 134	Darlana	Ridler	3238 Vista Del Cameno	Marina	CA 93933
Troop 134	Kathie	Blau	322 Quebrada Del Mar	Marina	CA 93933
Troop 134	Joseph	Blau	322 Quebrada Del Mar	Marina	CA 93933
Troop 134	Joshua	Blau	322 Quebrada Del Mar	Marina	CA 93933
Troop 134	Helene	Erickson			
Troop 134	Marcus	Erickson			
Troop 134	Niclas	Erickson			
Troop 134	Mia	Erickson			
CSUMB Student	MaLee	Vang	100 Campus Center	Seaside	CA 93955 559-960-5681
Attendees:					
	Karen	Shaffer	1240 Vallejo St	Seaside	CA 93955
	Jennifer	Fellguth	143 Cypress Grove Ct	Marina	CA 93933
	Heather	Brighton	3196 De Forest Rd	Marina	CA 93933 384-1918
	Haley	Brighton	3196 De Forest Rd	Marina	CA 93933 384-1918
	Lauren	Brighton	3196 De Forest Rd	Marina	CA 93933 384-1918
	Kirk	Brighton	3196 De Forest Rd	Marina	CA 93933 384-1918
	Mary	Dainton	235 Crocker Ave	Pacific Grove	CA 93950
	Laura	Bayless	PO Box 423	Carmel Valley	CA 93924
	Maria	Aparicio	3095 Marina Dr #21	Marina	CA 93933



Sean	Conway	1123 David Ave	Pacific Grove	CA	92950
Robert	Roth	226 Gallant Fox	Monterey	CA	93940
Norma	Lopez	187 Palm Ave #61	Marina	CA	93933
Jason	Kopp	562 Van Buren St	Monterey	CA	93940
Gary	Collings	PO Box 221924	Carmel	CA	93922
Michael	Graham	148 Seal Ct	Marina	CA	93933
Ryan	Graham	148 Seal Ct	Marina	CA	93933
Alison	Graham	148 Seal Ct	Marina	CA	93933

# Earth Day 2007 at Locke-Paddon Evaluation Form Results

Please rate the following items using this scale: 1= excellent 2= good 3= fair 4= poor

## A) Stewardship Activities

Clean up	1 (75%)	2 (25%)	
Weed Pulling	1 (56%)	2 (44%)	
Restoration	1 (63%)	2 (25%)	3 (12%)

**Rain caused poor participation at the restoration, but it was fun.**

## B) Meals

Food quality	1 (25%)	2 (50%)	3 (25%)
Service	1 (50%)	2 (50%)	
Special needs met	1 (25%)	2 (75%)	

**I think we should promote healthier, less processed foods. Good organic juice!**

## C) Booths & Activities

Types of Booths	1 (63%)	2 (37%)
Native Plant Hike	1 (67%)	2 (33%)

**What I saw seemed great!**

## D) Parking

Location	1 (60%)	2 (40%)
Special needs met	1 (56%)	2 (44%)

**My only concern was being stuck in the mud due to rain.**

## Would you like more booths, activities or interpretive programs? What kinds?

Have "Green" products & services booths from local companies. Solar product booth

Science displays from Marina HS

Next year maybe have booths in a half circle in the parking lot.

Activities appropriate for little people (5 to 7). Found art projects? Pressed flowers, leaves, etc...  
Decorating reusable cloth sacks.

Educational information and/or speaker. The library will be open next year.

I think the number of booths and activities was just right. Because of the rain, we did not participate in the interpretive programs.

Could you get one of the large banners announcing the events to be hung over Del Monte Ave?

## Do you have any additional comments or suggestions?

Thank you for starting this in Marina & helping us to appreciate what we have in our little town.

It's difficult to assess some of the activities because it rained so much, but loads of fun. The volunteer staff made things as organized & comfortable as they could.

Thank you!

Have MC in a better location. Very well planned though!

It was so unfortunate that the rain decided to come down for your event. From what I could see it seemed that you had a good mix of participants, activities & volunteer opportunities. We will plan on participating again in the future. It was a good scheduling move not to have it on "Earth Day" Weekend!

Invite people who do beach restoration.

It is too bad that it rained. I think more people would have participated with better weather. Thanks for the recognition!

I thought it was great but next time order better weather.

I think it's valuable to have these events in places like this that need work & attention. It was just regrettable about the rain. Keep it up!

## **SUPPORTING MATERIALS FOR BMP 2-2.b**

## **SUPPORTING MATERIALS FOR BMP 2-2.c**

## **STORM DRAIN INLET STENCILING**

<b>TOTAL NUMBER OF STORM DRAINS IN THE CITY</b>	<b>NO. OF STORM DRAINS STENCILED</b>	<b>PERCENTAGE OF CITY STORM DRAINS STENCILED</b>
Estimated 200	200 (shortly prior to current reporting period)	100% (shortly prior to current reporting period)

## **SUPPORTING MATERIALS FOR BMP 6-1.a**



## PERSONNEL TRAINING INFORMATION

**BMP 6-1.a - Orientation and training for streets, sewer, parks, vehicle maintenance, custodial, fire department, and building inspection personnel**

**Training Dates: 2/14/2007, 2/21/07, and inhouse training during the month of August 2007**

[illegible]

## **SUPPORTING MATERIALS FOR BMP 6-2.a**

**Monterey County Health Department  
Division of Environmental Health  
Certified Unified Program Agency**

1270 Natividad Road, Room B301  
Salinas, CA 93906  
Phone: (831) 755-4511  
Fax: (831) 755-8954  
http://www.co.monterey.ca.us/health/



Page \_\_\_ of \_\_\_

**Hazardous Material Business Response Plan Inspection Checklist**

☐ **CONSENT TO INSPECT GRANTED BY (Name/Title)**

*Inspection may involve obtaining photographs, soil sampling, review and copying of records, and determination of compliance with hazardous materials handling requirements.*

Facility Name: <u>City of Marina</u>	Date of Inspection: <u>6/26/07</u>
Facility Address: <u>2660 5th Avenue, Marina</u>	Permit Number: <u>pending</u>

<b>TYPE OF INSPECTION:</b>	<b>Date Business Response Plan Submitted:</b>
<input type="checkbox"/> Routine <input type="checkbox"/> Follow-up <input type="checkbox"/> Complaint <input type="checkbox"/> Other	<u>Required</u>

*The following citations refer to Chapter 6.93 of the California Health & Safety Code (CH&SC).  
C=Compliant; V=Violation; N/A=Not Applicable*

I. BUSINESS RESPONSE PLAN (CH&SC 25505)	C	V	N/A	IV. SITE MAPS (CH&SC 25504)	C	V	N/A
Submitted an updated or current HMBP	X			Locations of chemicals are indicated on storage plan/map.	X		
Maintains a copy of current Business Response Plan on site	X			All required items sited on plan/map.	X		
II. BUSINESS INFORMATION (CH&SC 25504)				Location of UST monitoring equipment indicated on site map.	X		
Correct information on the following forms:	X			V. EMERGENCY RESPONSE PLAN (CH&SC 25504)			
Business Activities	X			Maintains written Emergency Response Plan on site.	X		
Business Owner/Operator Identification	X			Emergency Coordinator(s) identified.	X		
Hazardous Materials Inventory Certification	X			Accurate emergency telephone numbers listed.	X		
Underground Storage Tank--Facility Information			X	Written emergency procedures established.	X		
CalARP regulated substances listed above threshold quantity			X	VI. EMPLOYEE TRAINING (CH&SC 25504)			
III. CHEMICAL INVENTORY (CH&SC 25509)				Established a written Emergency Response Training Plan.	X		
Inventory Statement reflects actual threshold quantities on-site.	X			Specifies employees' positions and materials of concern in Training Plan.	X		
Information on Chemical Description page/s is complete.	X			Annual training provided to employees and documented.	X		
Identified Extremely Hazardous Substances (EHS) are reported in "pounds."	X			Maintains safety-training records of employees for a minimum of 3 years.	X		

**COMMENTS**

City of Marina Corp yard in operation since January 7.  
Waste oil, waste antifreeze, waste oil filters are  
and regularly contained.  
Shop Rags properly stored & cleaned.  
Solvent water-based, aqueous, parts cleaners.  
5-Bay Maintenance & Test Shop.  
New motor oils.

**VIOLATIONS MUST BE CORRECTED BY:** Regulation required to obtain

*This inspection was conducted under authority of Titles 19, 22, 23, and 27 of the California Code of Regulations and of Chapters 6.516.7, and 6.93 of the Health and Safety Code and/or County and City codes and regulations. Items checked on the inspection forms represent a violation of that particular section for which there are civil as well as criminal penalties and fines ranging from \$2,000 to \$23,000 per day per violation. Any grace period granted by this department shall in no way bind the district attorney from prosecuting you for the violations noted. Corrections are required of all violations noted on all inspection forms attached. A reinspection fee of \$111.00 will be levied if violations have not been corrected by the reinspection date.*

<u>Tam Buckner</u>	<u>Tam Buckner</u>	<u>6-26-07</u>
Printed Name of Facility Representative	Signature of Facility Representative	Date
<u>Robert B. Leonard, P.E.H.</u>	<u>Robert B. Leonard</u>	<u>6/26/07</u>
Printed Name of CUPA Representative	Signature of CUPA Inspector	Date

411-221 HAZMAT BUS RESPONSE PLAN 4-06 MS WORD





**Monterey County Health Department  
Division of Environmental Health  
Certified Unified Program Agency**

1270 Natividad Road, Room B301, Salinas, CA 93906  
Phone: (831) 755-4511/Fax: (831) 755-8954  
http://www.co.monterey.ca.us/health/

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### Hazardous Waste Generator Inspection Checklist

☐ CONSENT TO INSPECT GRANTED BY (Name/Title)

*Inspection may involve obtaining photographs, soil sampling, review and copying of records, and determination of compliance with hazardous waste handling requirements.*

Facility Name: City of Marina Yard Date of Inspection: 6/26/07  
Facility Address: 3040 Lake Court, Marina Permit Number: FA0813602

TYPE OF INSPECTION: ☐ Routine ☐ Follow-up ☒ Closure ☐ Complaint ☐ EPA IDENTIFICATION NUMBER: 66260-173

The following citations refer to Title 22 of the California Code of Regulations. C=Compliant; V=Violation; N/A=Not Applicable

I. Required Record Keeping & Documentation	Citation	C	V	N/A
EPA ID Number obtained.	66262.12(a)	X		
Transporter and TSDF used have EPA identification number.	66262.12(c)	X		
Hazardous Waste (HW) determination made for all wastes.	66262.11(a)	X		
HW shipped with manifest.	66262.2	X		
Manifest kept 3 years.	66262.40(a)	X		
HW analyses kept 3 years.	66262.40(c)	X		
Manifest received from TSDF.	66262.42	X		
Contingency Plan/ Emergency Response Plan/ Business Response Plan submitted.	66264.53(a)	X		
Copy of Plan on site.	66264.53	X		
Plan complete.	66264.53	X		
Emergency Response (ER) Coordinator familiar w/ Plan.	66264.55	X		
II. Requirements for Containers/ Tank Management				
Containers in good condition.	66265.171	X		
Compatible with containers.	66265.172	X		
Containers closed/sealed except when adding/removing.	66265.173(a)	X		
Storage area inspected weekly.	66265.174	X		
Incompatible HWs separated.	66265.20	X		
Used oil filters managed properly and removed within 180 days (1 year if <1 ton).	66266.130(a), (c)(4)	X		
Waste is not accumulated more than 90/180/270 days.	66262.34(a)	X		
Empty containers managed within 1 year.	66261.7(f)	X		
Universal waste accumulated less than one year.	662773.15(a)	X		
General good housekeeping of facility.	66265.173 66265.174	X		

III. Requirements for Labeling	Citation	C	V	N/A
Containers clearly and properly labeled.	66262.31/32	X		
Universal waste container properly labeled.	66273.14	X		
Used oil filters drained and containers labeled.	66266.130(c)(3)	X		
Empty containers labeled and dated.	66261.7(f)	X		
Hazardous Waste Storage area properly posted.	66265.14	X		
IV. Requirements for Employee Training				
Training provided annually.	66265.16	X		
New hires trained within 6 mos.	66265.16(b)	X		
Training records kept on site.	66265.16(d)	X		
Training records kept for 3 years.	66265.16(e)	X		
V. Requirements for Preparedness & Prevention				
Spill control equipment available.	66264.32	X		
ER equipment in order.	66264.33	X		
ER equipment storage secure.	66264.14	X		
Aisle space in HW storage area adequate.	66264.35	X		

Waste Stream	Manifest Number(s)	Transporter/Handler
Waste Oil		Waste Oil Evergreen
Used Oil Filters		Waste Antifreeze
Antifreeze		Waste oil filters.
Parts Cleaner		
Dry Clean Solvent/TCF		Don't lost manifest for all waste removal

**COMMENTS**

Warehouse Maintenance shop is closed, only equipment is stored stored no hazmat storage. All hazmat chemicals, waste oil/waste antifreeze waste clean filters are located @ 2660 3rd Ave. Marina

- ☐ See additional comments and/or violations listed on the Facility Certification of Return to Compliance Form.  
☐ See additional comments and/or violations on Inspection Narrative Form.

VIOLATIONS MUST BE CORRECTED BY: Closure granted

*This inspection was conducted under authority of Titles 19, 22, 23 and 27 of the California Code of Regulations and/or Chapters 6.5, 6.7, and 6.95 of the Health and Safety Code and/or County and City codes and regulations. Items checked on the inspection forms represent a violation of the particular section for which there are civil as well as criminal penalties and fines ranging from \$2,000 to \$25,000 per day per violation. Any grace period granted by this department shall in no way bind the district attorney from prosecuting you for the violations noted. Corrections are required of all violations noted on all inspection forms attached. A reinspection fee of \$111.00 will be levied if violations have not been corrected by the reinspection date.*

Tim Boulevar  
Printed Name of Facility Representative

Robert B. Fernandez  
Signature of Facility Representative

6-26-07  
Date

Robert B. Fernandez  
Printed Name of CUPA Inspector  
105 Word Doc Rev 1.11.07

Robert B. Fernandez  
Signature of CUPA Inspector

6/26/07  
Date



## Hazardous Materials Handler Inspection Checklist

☐ CONSENT TO INSPECT GRANTED BY (Name/Title)

*Inspection may involve obtaining photographs, soil sampling, review and copying of records, and determination of compliance with hazardous waste handling requirements.*

Facility Name: City of Marina Yard Date of Inspection: 6/26/07  
Facility Address: 3040 Lake Court, Marina Permit Number: **FA08** 13602

TYPE OF INSPECTION:					Date Business Response Plan Submitted:	
<input checked="" type="checkbox"/> Routine	<input type="checkbox"/> Follow-up	<input type="checkbox"/> Closure	<input type="checkbox"/> Complaint	<input type="checkbox"/>	11/2/07.	

The following citations refer to Chapter 6.93 of the California Health & Safety Code (CHSC), Chapter 19 of the California Code of Regulations (CCR), Monterey County Code (MCC), Uniform Fire Code (UFC), or unless otherwise noted.

C=Compliant; V=Violation; N/A=Not Applicable

I. Required CUPA forms and Hazardous Materials Business Plan (HMBP)	Citation	C	V	N/A
Submitted a HMBP within the last 3 years.	CHSC 25504	X		
Current HMBP is on site & accessible.	CHSC 25505	X		
Maintains a current operating permit.	MCC 10.04.020	X		
Submitted current Business Activities Page.	CHSC 25504	X		
Submitted Business Owner/Operator Identification Page.	CHSC 25504	X		
Submitted a current Hazardous Materials Inventory Certification.	CHSC 25504	X		
Submitted Underground Storage Tank Facility Information & Tank Pages.	CHSC 25504	X		
Aboveground Storage Tank (AST) facility has a Spill Prevention Control and Countermeasure Plan (SPCC)	CHSC 25270.5(c)			X
Location of chemicals indicated on storage plan/site map.	CHSC 25504	X		
All required items cited on storage plan/site map.	CHSC 25504	X		
<b>II. Requirements for Hazardous Materials Containment &amp; Labeling</b>				
Containers in good condition.	CCR 2731(c)	X		
Containers properly labeled.	CCR 2731(c)	X		
Contents in containers compatible.	CCR 2731(c)	X		
Containers closed/sealed except when adding/removing contents.	CCR 2731(c)	X		
Storage area inspected weekly.	CCR 2731(c)	X		
Incompatible materials separated.	CCR 2731(c)	X		
Compressed gas cylinders securely chained.	UFC 7401.6.4	X		
Hazardous Materials Storage Area is appropriately labeled.	CCR 2731(c)	X		
Empty containers labeled and managed properly.	22 CCR 66261.7	X		
CalARP regulated substances listed above threshold quantity.	CHSC 25504			X
General good housekeeping of facility	CCR 2731(c)	X		
<b>III. Requirements for Employee Training</b>				
Established a written Hazardous Materials Handling & Emergency Response Training Plan.	CHSC 25504	X		
Employee(s) trained within the first 6 months of hire on hazardous materials and emergency response.	CHSC 25504	X		
Annual refresher training provided on hazardous materials handling and emergency response.	CHSC 25504	X		
Maintains training records of employees for a minimum of 3 years.	CHSC 25504	X		
<b>IV. Requirements for Preparedness &amp; Prevention</b>				
Spill control and spill mitigation materials available.	CCR 2731(c)	X		
Spills and discharges responded to in adequate time.	CCR 2731(c)	X		
Emergency equipment tested, maintained, & accessible.	CCR 2731(c)	X		
Material Safety Data Sheets are accessible for materials stored on site.	CCR 2731(c)	X		
<b>V. Facility Inventory</b>				
<b>Material</b>	<b>Container</b>	<b>Quantity</b>		
/				

## COMMENTS

COMMENTS Annual Compliance Inspection Note. Maintenance Shop has moved to 2660 5th Avenue, Marina, CA. Permit will be required @ this site to be in compliance.

- ☐ See additional comments and/or violations listed on the Facility Certification of Return to Compliance Form.
- ☐ See additional comments and/or violations on Inspection Narrative Form.

**VIOLATIONS MUST BE CORRECTED BY:**

*This inspection was conducted under authority of Titles 19, 22, 23 and 27 of the California Code of Regulations and/or Chapters 6.5, 6.7, and 6.93 of the Health and Safety Code and/or County and City codes and regulations. Items checked on the inspection forms represent a violation of the particular section for which there are civil as well as criminal penalties and fines ranging from \$2,000 to \$25,000 per day per violation. Any grace period granted by this department shall in no way bind the district attorney or prosecuting ven for the violations noted. Corrections are required of all violations noted on all inspection forms attached. A reinspection fee of \$11.00 will be levied if violations have not been corrected by the reinspection date.*

Jim Bzimal  
Printed Name of Facility Representative

*Signature of Employer Representative*

6-26-07  
Date

Robert B Fernan

Signature of CUPA Inspector H. Roberto Hernandez Date 6/26/07

Date \_\_\_\_\_

## **SUPPORTING MATERIALS FOR BMP 6-4.b**

## MONTHLY SUMMARY PESTICIDE USE REPORT

FD-100 (REV. 4/92)

INSTRUCTIONS FOR COMPLETING THIS FORM ARE INDICATED BELOW AND ON THE REVERSE SIDE

OPERATOR (FIRM NAME) <b>CITY OF MARINA</b>		ADDRESS <b>211 HILLCREST AVE.</b>	CITY <b>MARINA</b>	ZIP CODE <b>93933</b>	PHONE NUMBER <b>831-384-0888</b>
OPERATOR IDENTIFICATION/PERMIT NUMBER <b>21-08-27MNC15</b>	LICENSE NUMBER <b>16239</b>	COUNTY (WHERE APPLIED) <b>MONTEREY</b>	COUNTY NUMBER <b>27</b>	MONTH/YEAR OF USE <b>5/07</b>	TOTAL NUMBER OF APPLICATIONS <b>17</b>

1. Complete Columns A, B, C, and D for All Users

2. Complete Column E by Using One of the Following Codes

- Code 10 - Structural Pest Control ..... Includes any pest control work performed within or on buildings and other structures
- Code 30 - Landscape Maintenance Pest Control ..... Includes any pest control work performed on landscape plantings around residences, or other buildings, golf courses, parks, cemeteries, etc.
- Code 40 - Right-of-Way Pest Control ..... Includes any pest control work performed along roadsides, power lines, median strips, ditch banks and similar sites
- Code 50 - Public Health Pest Control ..... Includes any pest control work performed by or under contract with State or local public health or vector control agencies
- Code 80 - Vertebrate Pest Control ..... Includes any vertebrate pest control work performed by public agencies or work under the supervision of the State or county agricultural commissioner
- Code 91 - Commodity Fumigation (Nonfood/Nonfeed) ..... Includes fumigation of nonfood/nonfeed commodities such as: pallets, dunnage, furniture, burlap bags, etc.
- Code 100 - Regulatory Pest Control ..... Includes any pest control work performed by public employees or contractors in the control of regulated pests

3. Complete Columns F and G, if Use Does not Fit one of the Above Codes

A MANUFACTURER AND NAME OF PRODUCT APPLIED	B EPACAL FORNA REGISTRATION NUMBER FROM LABEL INCLUDE ALPHA CODE	C TOTAL PRODUCT USED (State One Unit of Measure)	D NUMBER OF APPLICATIONS	E CODE	F COMMODITY OR SITE TREATED	G ADDRESS/STREET TREATED
Monsanto / Round-Up	524-308-AA	566 LB OZ PT QT GA	16	40		
Elanco / Surflan	1471-113	436 LB OZ PT QT GA	11	40		
Dow Agro/Rodent Sigue	0062719-00324	30 LB OZ PT QT GA	1	40		
		LB OZ PT QT GA				
		LB OZ PT QT GA				
		LB OZ PT QT GA				
		LB OZ PT QT GA				
		LB OZ PT QT GA				
		LB OZ PT QT GA				
		LB OZ PT QT GA				
		LB OZ PT QT GA				

REPORT PREPARED BY

DATE 7-24-07



2007

## CHEMICAL APPLICATION LOG

DATE	TIME	PRODUCT NAME	ACTIVE INGREDIENT	E.P.A. ID #	ENTRY LEVEL	LIQUID CHEM	H <sub>2</sub> O	GRANULE CHEM	AREA	LOCATION/ AREA APPLIED	APPLIED BY	AUTH.
8/1	PM	Round up	Glyphosate	524-475		40	0Z	20	60L	Airport	Hammond	Licini S.H.
8/2	ALL DAY	Round up	Glyphosate	524-475		200	0Z	100	90L	Airport	Hammond	Licini S.H.
8/3	PM	Round up	Glyphosate	524-475		80	0Z	40	90L	Airport	Acetias	Licini S.H.
8/7	PM	Trimac	2,4-D	2217-517		24	0Z	12	60L	IMJIN CENTER ISLANDS	Licini Hammond	S.H.
8/10	PM	Round up	Glyphosate	524-475		6	0Z	3	60L	WINDY HILL P. CENTER I	Hammond	S.H.
8/13	ALL DAY	Round up Sunflow	Glyphosate oxykin	524-475 70506-44		240Z	1Z	240Z	60L	CENTER I	Sepacen Bally	S.H.
8/14	ALL DAY	Round up	Glyphosate	524-475		60	0Z	30	60L	Airport CENTER I	Licini	S.H.
8/15	ALL DAY	Round up	Glyphosate	524-475		150	0Z	75	90L	Airport	Licini	S.H.
8/16	ALL DAY	Round up	Glyphosate	524-475		160	0Z	80	90L	Airport	Hammond	S.H.
8/16	ALL DAY	Round up Supracor	Glyphosate oxykin	524-475 70506-44		36	0Z	18	90L	DEL MONTE CENTER I	Sepacen Acetias	S.H.
8/23	AM	Round up Sunflow	Glyphosate oxykin	524-475 70506-44		60Z	1Z	60Z	30L	Reservoir	Hammond	S.H.



## CHEMICAL APPLICATION LOG

DATE	TIME	PRODUCT NAME	ACTIVE INGREDIENT	EPA ID #	ENTRY LEVEL	LIQUID CHEM	H <sub>2</sub> O	GRANULE CHEM	AREA	LOCATION/ AREA APPLIED	APPLIED BY	AUTH.
8/22	AM	Roundup (5)	OXADIAZON	437-886		16 oz		1 lb	1/4 acre	CENTER ISLAND	Licini	Saf
8/24	AM	Roundup	Glyphosate	524-475		16 oz		1 lb		Proctor Wading Wood	Hammond	Saf
8/29	AM	Roundup	Glyphosate	524-475		12 oz		1 lb		CENTER ISLAND	Hammond	Saf
8/29	AM	Roundup	ORYZALINE	70506-44		12 oz		1 lb		CENTER ISLAND	Licini	Saf

## **SUPPORTING MATERIALS FOR BMP 6-6.a**

## STREET SWEEPING INFORMATION

Describe the City's educational efforts, in the form of brochures and newsletter information, that were made to encourage community cooperation with street sweeping schedules and to convey the importance of street sweeping. Also state how, and how many, flyers were distributed notifying residents of the street sweeping schedules:

APPROX. JANUARY, 2007 NEWSLETTER MAILED  
TO ALL CITY RESIDENTS CONTAINED A COPY  
OF THE STREET SWEEPING SCHEDULE.

Was the City's street sweeping equipment maintained and cleaned with drainage to a sanitary sewer?.

☒ Yes ☐ No If no, explain: \_\_\_\_\_

Were street sweepings ~~will be~~ disposed of at the landfills and not left in piles along roads?

☒ Yes ☐ No If no, explain: \_\_\_\_\_

Were all municipal parking structures and municipal surface parking lots inspected for trash and debris at least weekly, and was trash picked up and removed?

☒ Yes ☒ No If no, explain: \_\_\_\_\_

For municipal lots or structures where there are more than 150 spaces, was the lot or structure cleaned at least once a week regardless of inspections, and was cleaning done by a combination of blowers and sweepers, brooms, or some other method that did not wash or convey the debris into the storm drain system? (Note: Exceptions may be made when there is an effective treatment system installed in the storm drain system serving the lot or structure).

☐ Yes ☒ No If no, explain: N/A

## **SUPPORTING MATERIALS FOR BMP 6-7.e**

## Compliance Inspection Checklist for Vehicle Service Facilities

Facility Name	CITY OF MARINA CORPORATION YARD
Facility Address	VEHICLE MAINTENANCE FACILITY
Facility Contact Person	JIM BRICKMAN 2660 5 <sup>th</sup> AVE, Marina
Facility Telephone	884-0888
Inspector's Name	JIM BRICKMAN
Date of Inspection	6/1/07

HOUSEKEEPING	YES	NO	OTHER
Are drip pans used under leaking vehicles to capture fluids?	✓		
Are shop floors and other paved surfaces regularly swept, vacuumed, or mopped rather than hosed down?	✓		
Are all unnecessary hoses removed to discourage washing down floors and outside paved areas?	✓		
Are all metal filings, dust, and paint chips collected from grinding, shaving, and sanding disposed of properly?	✓		
Is all dust from other activities (e.g. brake pad dust) collected and disposed of in compliance with local requirements?	✓		
Are cleaning rags recycled through an industrial laundry?	✓		
Are storm drain inlets, catch basins, and any storm water treatment systems within the facility boundary inspected and cleaned before October 1 each year?	✓		
Are storm water treatment facilities within the facility boundary being properly maintained?			N/A
Are storm drains labeled with "No Dumping - Discharges to Ocean"?			N/A
Are vehicles that are received to be parted or scavenged parked on a paved surface and immediately drained of gasoline and other fluids, and are these fluids properly disposed of?	✓		
Are drip pans in place to catch leaking fluids?	✓		
Are all fluids drained from components, such as engine blocks, which are stored for reuse or reclamation?			N/A
Are these components kept under cover and on a drop pan or sealed floor?			N/A
STORAGE	YES	NO	OTHER
Are hazardous materials and wastes, including waste containers of antifreeze and oil, stored in secondary containment where they are protected from rain and in a way that prevents spills from reaching the sanitary sewer or storm drain?	✓		
Are lids kept on waste barrels and containers, and stored indoors or under cover to reduce exposure to rain?	✓		



STORAGE (CONT'D)	YES	NO	OTHER
Are all hazardous wastes labeled according to hazardous waste regulations?	✓		
Are wastes kept separate to increase waste recycling/disposal options and to reduce costs?	✓		
Is waste oil prevented from being mixed with fuel, antifreeze, or chlorinated solvents?	✓		
Are all bulk fluids and wastes double contained to prevent accidental discharges to the sewer and storm drain?	✓		
Are all storage areas kept clean and dry, so that leaks and spills are detected as soon as possible?	✓		
Are new and old batteries stored securely to avoid breakage and acid spills during earthquakes?	✓		
Are all of the shelves secured to the wall?	✓		
Are all used batteries stored indoors and in plastic trays to contain potential leaks?		✓	
Are all old batteries recycled?	✓		
SPILL CONTROL (Note: The Best Spill Control is Prevention)	YES	NO	OTHER
Is the spill response plan maintained and kept current, and are all employees trained on the elements of the plan?	✓		
Is the distance between waste collection points and storage areas minimized?	✓		
Are all solid and liquid wastes contained and covered, especially during transfer?	✓		
Are absorbent materials purchased and maintained in accordance with local regulations and procedures for containment and cleanup of different spills?	✓		
Are they easily accessible from anywhere in the shop?	✓		
Are the leaks and drips spot cleaned routinely?	✓		
Are the floor drains checked to ensure that they are not connected to or discharge to the storm drain system?	✓		
OUTDOOR WASTE RECEPTACLE AREAS	YES	NO	OTHER
Are leaks and drips cleaned routinely to prevent runoff of spillage?	✓		
Is the possibility of pollution from outside waste receptacles minimized by doing at least one of the following:			
Using only watertight waste receptacle(s) and keeping the lid(s) closed, or	✓		
Grading and paving the waste receptacle area to prevent run-on of storm water, and installing a low containment berm around the waste receptacle area or installing a roof over the waste receptacle area			

EDUCATION AND TRAINING	YES	NO	OTHER
Are all employees trained upon hiring, and annually thereafter on personal safety, chemical management, and proper methods for handling and disposing of waste?	✓		
Do all employees understand storm water discharge prohibitions, wastewater discharge requirements, and these best management practices?	✓		
Are training logs or similar methods used to document training?	✓		
Are instructional/informational signs posted around the shop for customers and employees?	✓		
Are signs placed above all sinks prohibiting discharges of vehicle fluids and wastes?		✓	
Are signs placed on faucets (hose bibbs) reminding employees and customers to conserve water and not to use water to clean up spills?		✓	
Are drains labeled within the facility boundary, by paint/stencil (or equivalent), to indicate whether they flow to an on-site treatment device, directly to the sanitary sewer, or to a storm drain.		✓	N/A
Are emergency telephone numbers of the wastewater treatment plant and the fire department posted?	✓		
CHANGING OIL AND OTHER FLUIDS	YES	NO	OTHER
Are vehicle fluids changed, whenever possible, indoors and only on floors constructed of non-porous materials?	✓		
Are drip pans used if vehicle fluids must be removed outdoors?	✓		
Are spills prevented from reaching the street or storm drain by working over an absorbent mat and covering nearby storm drains, or working in a bermed area? (Note: If necessary, absorbent socks can be used to create a bermed area)			N/A
When draining fluids into a drain pan, is a larger drip pan (e.g., 3' x 4') placed under the primary drain pan to catch any spilled fluids?		✓	
Are fluids drained from vehicles transferred to a designated waste storage area as soon as possible?	✓		
Are drain pans and other open containers of fluids covered and within secondary containment unless they are attended by personnel?	✓		
Is antifreeze and waste oil stored separately and recycled, or disposed of as hazardous waste?	✓		
Never pour vehicle fluids or other hazardous wastes into sinks, toilets, floor drains, outside storm drains, or in the garbage. These substances should be kept in designated storage areas until recycled or safely disposed of (see Rationale 4 at the end of section).	✓		



CHANGING OIL AND OTHER FLUIDS (CONT'D)	YES	NO	OTHER
Drain fluids from leaking or wrecked vehicles as soon as possible, to avoid leaks and spills.	✓		
CLEANING ENGINES AND PARTS, AND FLUSHING RADIATORS	YES	NO	OTHER
Are discharges from engine cleaning and flushing of radiators prevented from being discharged to the sanitary sewer and storm drains? (Note: A licensed service should be used to haul and recycle or dispose of wastes)	✓		
Is steam cleaning of engines done using a closed-loop water recycling system? (Note: No steam cleaning water may be discharged to the sanitary sewer or the storm drain)			N/A
Are specific areas or service bays designated for engine, parts, or radiator cleaning? (Note: Parts should not be washed or rinsed outdoors)		✓	
Are self-contained sinks and tanks used when working with solvents, and are sinks and tanks kept covered when not in use?	✓		
Are degreasing solvent sinks inspected regularly for leaks, and are necessary repairs made immediately?	✓		
Is soldering avoided over drip tanks, and are drippings swept up and recycled or disposed of as hazardous waste?	✓		
Are parts rinsed and drained over the solvent sink or tank, so that solvents will not drip or spill onto the floor, and are drip boards or pans used to catch excess solvent solutions and divert them back to a sink or tank?	✓		
Are parts allowed to dry over the hot tank, and if rinsing is required, is it performed over the tank as well?			N/A
Are parts cleaning solvent solutions and water used in flushing and testing radiators collected and reused, and when reuse is no longer possible, are these solutions disposed of properly?	✓		
Are cleaning solutions used for engines or parts prevented from being discharged into the sanitary sewer system without adequate treatment? (Note: Most facilities have these solutions hauled off-site as hazardous waste because of the permits necessary for on-site treatment. Rinse water may only be discharged to the sanitary sewer after adequate treatment and approval by the local wastewater authority. Wastewater from steam cleaning or engine/parts cleaning should never be discharged to a street, gutter, storm drain, or sanitary sewer)			N/A



WASHING CARS AND OTHER VEHICLES	YES	NO	OTHER
<b>Regular Activity</b>			n/a
If car washing is a central activity of the business, is the wash water treated and recycled?			n/a
Is a vehicle washing area designated, and are cars and trucks washed only in that area?	✓		
Is the "wash pad" bermed to prevent discharges to storm drains and does it discharge to the sanitary sewer after adequate treatment and approval of the local wastewater authority? (Note: An outside wash pad should be covered, or its area minimized to reduce the amount of rainwater reaching the sanitary sewer. Consult the local wastewater authority for guidance)	✓		
Are acid-based wheel cleaners and other specialized cleaners prohibited, or if not, are they provided proper treatment before discharge to the sewer? (Note: Consult the local wastewater authority for guidance)			n/a
<b>Occasional Activity</b>			
If soap is used in washing, is the wash water collected and discharged, preferably with treatment, to the sanitary sewer, and not discharged to a storm drain?	✓		
Is rinse water from spray-on acid-based wheel cleaners prevented from flowing to a street, gutter, or storm drain?	✓		
<b>Washing New Vehicles</b>			
Are storm drains protected from solvents used to remove protective coatings from new cars? (Note: Discharges of these solvents to the sanitary sewer must receive adequate treatment and approval of the local wastewater authority)			n/a
<b>BODY REPAIR AND PAINTING</b>	<b>YES</b>	<b>NO</b>	<b>OTHER</b>
Whenever possible is body repair and painting work conducted indoors or under cover?			n/a
Are damaged vehicles inspected for leaks when they are received, and are drip pans used if necessary?	✓		
Are hose-off degreasers prohibited from use when cleaning auto body parts before painting? (Note: These should not be used, instead brush off loose debris and use rags to wipe down parts)			n/a
Are dry cleanup methods such as vacuuming or sweeping used to clean up dust from sanding metal or body filler? (Notes: Debris from wet sanding can be allowed to dry overnight on the shop floor, then swept and vacuumed. Liquid from wet sanding should not be discharged to the storm drain)			n/a
Is the use of water to control overspray or dust in the paint booth prohibited unless it is collected and treated before discharge into the sanitary sewer system?			n/a

BODY REPAIR AND PAINTING (CONT'D)	YES	NO	OTHER
Are spray guns cleaned in a self-contained cleaner and is the cleaning solution recycled when it becomes too dirty to use? (Note: Never discharge cleaning waste to the sanitary sewer or storm drain?)			N/A
FUEL DISPENSING	YES	NO	OTHER
Are fuel dispensing areas maintained using dry cleanup methods such as sweeping for removal of litter and debris, or use of rags and absorbents for leaks and spills? (Note: Fueling areas should never be washed down unless dry cleanup has been done and the wash water is collected and disposed of in the sanitary sewer system)	✓		
Are underground storage tanks fitted with spill containment and overfill prevention systems meeting the requirements of Section 2635(b) of Title 23 of the California Code of Regulations?	✓		
Except where prohibited by local fire departments are fuel dispensing nozzles fitted with "hold-open latches" (automatic shutoffs)?	✓		
Are signs posted at the fuel dispenser or fuel island warning vehicle owners/ operators against "topping off" of vehicle fuel tanks?			N/A
ACTIONS TAKEN FOLLOWING INSPECTION	YES	NO	COMMENTS
Responsible party requested to correct any deficiencies noted above? (Include date notice was sent)			
Site reinspected following corrective action by responsible party? (Include date of reinspection)			
Deficiencies found to be corrected during reinspection?			
Further action taken or necessary following reinspection? (Describe)			

## **SUPPORTING MATERIALS FOR BMP 6-10.c**



## STORM DRAIN SYSTEM INSPECTION AND MAINTENANCE INFORMATION

Describe the City's storm drain system inspection and maintenance program, including such things as:

- Procedures used to identify any structures in need of immediate repair to maintain structural integrity
- What parameters are used by field crews to determine when inlets and catch basins have become 40% full of accumulated trash, or debris is more than four inches deep, so that they can be cleaned as needed to meet this minimum standard
- What is done to ensure that catch basins and inlets are stenciled and re-stenciled as necessary
- What procedures are in place to ensure that inspections are conducted more frequently during the wet season for problem areas where sediment or trash accumulates more often.

- ALL STORM DRAINS ARE INSPECTED AND CLEANED  
ANNUALLY DURING SEPTEMBER, BEFORE THE RAINY  
SEASON BEGINS.
- DURING ANNUAL CLEANING STENCILS ARE CHECKED  
AND RE-STENCILLED AS NEEDED.
- WEEKLY, DURING THE RAINY SEASON, AND DURING  
RAIN, STORM DRAINS ARE CLEARED OF TRASH.

Does the City keep accurate logs of the number of catch basins cleaned?

☒ Yes ☐ No If no, explain: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Is the amount of waste collected recorded?

☐ Yes ☒ No If no, explain: NOT RECORDED IN 2006, WILL  
BE RECORDED FOR STORM DRAIN CLEANING IN 2007

Are wastes collected from cleaning activities of the drainage system stored in appropriate containers or temporary storage sites in a manner that prevents discharge to the storm drain?

☒ Yes ☐ No If no, explain: PLACED IN COVERED AREA UNTIL  
TAKEN TO LANDFILL.

Are the wastes dewatered, with outflow into the sanitary sewer, and is collected debris properly disposed of at a landfill?

☒ Yes ☐ No If no, explain: \_\_\_\_\_

Are reaches of the storm drain system with drainage problems regularly cleaned or flushed to keep the pipe clear of excessive buildup?

☒ Yes ☐ No If no, explain: \_\_\_\_\_